

Print Version

[Close Window](#)[Print](#)

Summary

Reference	EDC/16/0112
Alternative Reference	PP-05568271
Application Received	Mon 24 Oct 2016
Application Validated	Thu 03 Nov 2016
Address	Eastern Quarry Watling Street Swanscombe Kent
Proposal	Application for the part-approval of condition 35 (Part 1 only) attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the Western part of Eastern Quarry.
Status	Decided
Decision	Approved
Decision Issued Date	Fri 20 Jan 2017
Appeal Status	Unknown
Appeal Decision	Not Available

Further Information

Application Type	Condition Discharge
Decision	Approved
Actual Decision Level	Delegated Decision
Expected Decision Level	Not Available
Case Officer	Caroline Barker
Parish	Swanscombe & Greenhithe T.C.
Ward	Greenhithe & Knockhall
District Reference	Not Available

Applicant Name	Henley Camland LLP
Agent Name	Mr Mark Novelle
Agent Company Name	CBRE
Agent Address	CBRE Henrietta House Henrietta Place London W1G 0NB
Environmental Assessment Requested	No

Contacts

Agent

Mr Mark Novelle

Email Address	mark.novelle@cbre.com
Phone Number	02071822423

Ward Councillors

Councillor Peter Harman

Address	C/o Civic Centre Home Gardens Dartford Kent DA1 1DR
---------	---

Councillor David James Mote

Address	Civic Centre Home Gardens Dartford DA1 1DR
---------	--

Councillor Carol Gale

Address	C/o Civic Centre Home Gardens Dartford Kent DA1 1DR
---------	---

Important Dates

Application Received Date	Mon 24 Oct 2016
Application Validated Date	Thu 03 Nov 2016
Expiry Date	Tue 27 Dec 2016
Actual Committee Date	Not Available
Latest Neighbour Consultation Date	Not Available

Neighbour Consultation Expiry Date	Not Available
Standard Consultation Date	Tue 06 Dec 2016
Standard Consultation Expiry Date	Tue 27 Dec 2016
Last Advertised In Press Date	Not Available
Latest Advertisement Expiry Date	Not Available
Last Site Notice Posted Date	Not Available
Latest Site Notice Expiry Date	Not Available
Internal Target Date	Thu 15 Dec 2016
Agreed Expiry Date	Fri 20 Jan 2017
Decision Made Date	Fri 20 Jan 2017
Decision Issued Date	Fri 20 Jan 2017
Permission Expiry Date	Thu 20 Jan 2022
Decision Printed Date	Not Available
Environmental Impact Assessment Received	Not Available
Determination Deadline	Thu 29 Dec 2016
Temporary Permission Expiry Date	Not Available

Related Information

There are 13 documents associated with this application.

There is 1 case associated with this application.

There are 0 properties associated with this application.



Ebbsfleet
DEVELOPMENT CORPORATION

Ebbsfleet Development Corporation
North Kent Police Station
Thames Way
Northfleet
Gravesend
Kent
DA11 8BD
www.ebbsfleetdc.org.uk

Application for approval of details reserved by condition.
Town and Country Planning Act 1990
Planning (Listed Buildings and Conservation Areas) Act 1990

Publication of applications on planning authority websites.

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website.
If you require any further clarification, please contact the Authority's planning department.

1. Applicant Name, Address and Contact Details

Title:		First Name:		Surname:	Henley Camland LLP
Company name:					
Street address:	c/o Agent				
Telephone number:					
Mobile number:					
Town/City:					
Fax number:					
Country:					
Email address:					
Postcode:					
Are you an agent acting on behalf of the applicant?					
☒ Yes ☐ No					

2. Agent Name, Address and Contact Details

Title:	Mr	First Name:	Mark	Surname:	Novelle
Company name:	CBRE				
Street address:	Henrietta House				
	Henrietta Place				
Telephone number:	02071822423				
Mobile number:					
Town/City:	London				
Fax number:					
Country:					
Email address:					
Postcode:	W1G 0NB				
	mark.novelle@cbre.com				

3. Site Address Details

Full postal address of the site (including full postcode where available)

House:		Suffix:	
House name:	Eastern Quarry		
Street address:	Watling Street		
Town/City:	Swanscombe		
Postcode:			

Description of location or a grid reference
(must be completed if postcode is not known):

Easting:	559259
Northing:	173471

Description:

Land at Eastern Quarry, Watling Street, Swanscombe

4. Pre-application Advice

Has assistance or prior advice been sought from the local authority about this application?

☐ Yes ☒ No

5. Description of the Proposal

Please provide a description of the approved development as shown on the decision letter:

"Development comprising or to provide a mixed use development of up to 6250 dwellings & in addition up to 231,000 square metres of built floorspace (in total) for: business premises (B1 (a), (b) and (c)); education community & social facilities (D1 & D2) (schools, libraries, health centres, places of worship, sports & leisure centres, community centres, care facilities for the young, old and/or infirm); hotels (C1); theatre (D2); supporting retail (A1, A2, A3, A4 & A5) & leisure (D2) facilities; miscellaneous sui generis uses, ancillary & support facilities. Such development to include; groundworks to provide revised ground contours and development platforms; vehicle parking; laying out open space (including parks, play spaces, playing fields, allotments, lakes and water features, community woodland & formal and informal open space); landscaping; works to create ecological & nature reserves & refuge areas; provision and/or upgrade of services and related service media and apparatus; drainage works (including round & surface water attenuation & control measures and replacement and/or refurbishment of existing discharges pipe through Craylands Gorge); pedestrian cyclist & vehicular ways, highways and public transport facilities (including new and improved links between the site & existing public highways (including Alkerden Lane, 8255, A2 Watling Street & Southfleet Road), bridges & causeways, dual use & segregated facilities for public transport systems & cross site pedestrian, cyclist & vehicular routes); facilities for mooring, launching & landing water craft; & miscellaneous ancillary & associated engineering & other operations. All such development shall accord with the Application Plans & Development Parameters Schedule & the disposition of development table each as listed in condition 3. (incorporating variation of condition 3 to change to change finished ground level parameter plan; lineages parameter plan; land use disposition plan; development parameters schedule and disposition of development table)

Application reference number:	12/01451/EQVAR	Date of decision:	18/01/2013
-------------------------------	---	-------------------	---

Please state the condition number(s) to which this application relates:

Condition number(s):

Has the development already started?	☒ Yes ☐ No	If Yes, please state when the development was started:	18/01/2013
--------------------------------------	---	--	---

Has the development been completed?	☐ Yes ☒ No
-------------------------------------	---

6. Discharge of Condition(s)

Please provide a full description and/or list of the materials/details that are being submitted for approval:

Land Quality and Ground Contamination Desk Study

7. Part Discharge of Condition(s)

Are you seeking to discharge only part of a condition?

☒ Yes ☐ No

If Yes, please indicate which part of the condition your application relates to:

Part 1: Submission of a contaminated land assessment desk study and site investigation strategy

8. Site Visit

Can the site be seen from a public road, public footpath, bridleway or other public land?

☐ Yes ☒ No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact? (Please select only one)

☒ The agent ☐ The applicant ☐ Other person

9. Declaration

I/we hereby apply for planning permission/consent as described in this form and the accompanying plans/ drawings and additional information. I/we confirm that, to the best of my/our knowledge, any facts stated are true and accurate and any opinions given are the genuine opinions of the person(s) giving them.



Date

21/10/2016

Reference: EDC/16/0112

Site Address: Eastern Quarry Watling Street Swanscombe Kent

Proposal: Application for the part-approval of condition 35 (Part 1 only) attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the Western part of Eastern Quarry.

Applicant: Henley Camland LLP

Parish / Ward: Swanscombe And Greenhithe

SUMMARY:

This application seeks approval for Part 1 of Condition 35 of the outline permission for Eastern Quarry (12/01451/EQVAR) relating to contamination. The site area relevant to this application is land to the west of Castle Hill which is yet to be implemented.

The report provides a desk study covering the history of the site, including lessons learnt at Castle Hill, and sets out a site investigation strategy in its recommendations.

Dartford Borough Council's Environmental Health department and the Environment Agency have both examined the report and raise no objection.

It is considered the report sufficiently addresses the requirements as set out in Part 1 of the condition.

RECOMMENDATION: APPROVE

Informatives

1. The application is approved in accordance with the submitted information as contained in the following approved documents:
 - "Henley Camland – Eastern Quarry Stage 2 Development – Land Quality and Ground Contamination Desk Study: Issue 1 – 23 September 2016. Job number 250122-01"
2. The applicant is advised that this approval does not assume approval for amendments to the Masterplan as identified in the accompanying figures of the report. A separate application for planning permission must be submitted for consideration of changes to the Masterplan.
3. The applicant is reminded of Parts 2, 3, 4 and 5 of Condition 35 which must be addressed to fully approve this condition in respect of this site.
4. In accordance with paragraphs 186 and 187 of the National Planning Policy Framework, Ebbsfleet Development Corporation, as local planning authority, has taken a positive and proactive approach to the proposed development, focusing on finding solutions:

- The application was acceptable as submitted and no further assistance was required;
- The application was determined within the relevant timescales

1.0 PROPOSAL

- 1.1 This is an application for consideration of details pursuant to condition 35 for a contaminated land assessment of planning permission 12/01451/EQVAR.
- 1.2 This condition has previously been part-approved for the land on which Castle Hill village is now located. This application seeks approval to condition 35 for the remaining land for the two remaining villages as identified in the Masterplan will be located.

2.0 RELEVANT PLANNING HISTORY

- 2.1 DA/03/1134/OUT - Outline permission for a mixed development comprising up to 6,250 dwellings and up to 231,000sq metres of built floorspace for: business premises; education; community & social facilities; hotels; theatre; & supporting retail & leisure facilities & associated works. Approved 13.11.07.
- 2.2 DA/12/01451/EQVAR - S73 application for the variation of conditions of DA/03/1134/OUT to reflect a revised disposition of land uses across the site. Approved 18.01.13.

3.0 DEVELOPMENT PLAN

- 3.1 The development plans for the area and relevant policies referred to within them comprise:
 - Dartford Borough Local Development Framework – Local Plan – Saved Policies (2011):
 - DL1 - Encouragement of restoration schemes
 - Dartford Development Policies Plan Document (DPPD) (draft December 2015) as emerging policy:
 - DP5 - Environmental and Amenity Protection
 - Other Guidance:
 - National Planning Policy Framework (NPPF)
 - National Planning Practice Guidance (NPPG)

4.0 PLANNING APPRAISAL

4.1 Condition 35 states:

“No development approved pursuant to Condition 2 (except that area covered by the separate approved land forming permission DA/04/01170) shall be commenced prior to a contaminated land assessment (in accordance with the CLEA guidelines and methodology) and associated remedial strategy, together with a timetable of works, for that area, being submitted to the Local Planning Authority for approval.”

4.2 The condition has a series of requirements listed 1) to 5) which requires:

- 1) the submission of a desk study including history of site use and propose a site investigation strategy based on the desk study;
- 2) requires the site investigation to be carried out by a competent professional;
- 3) submission of a site investigation report detailing investigative works and sampling, together with results and a mitigation strategy;
- 4) approved mitigation works to be carried out under a quality assurance scheme (no submission required);
- 5) closure report to be provided upon completion of the works required to discharge the condition.

4.3 The current application is submitted to address Part 1 of condition 35 only and provides a desk based assessment of land quality and contamination issues across the western part of the Eastern Quarry masterplan development site, which is the area for the remaining two villages yet to be implemented to the west of Castle Hill.

4.4 A full report has been submitted to support this application. The report consists of a 60-page written desk-based assessment of land quality and contamination issues across the western part of the Eastern Quarry masterplan development site and provides an update to the previous 2002 desk study for the “Stage 2” development area (the site), providing an assessment of the site in terms of potential contamination sources and potential risks to site users and the environment. It provides a specific focus on contamination and the chemical quality of the land from a human health and environmental perspective.

4.5 The report introduces the site in terms of location and conditions; details the future proposals based on the forthcoming Masterplan (which will be the subject of a future S73 application, as currently in discussion) and the earthworks that will be required; history of the site’ geological, hydrogeological and environmental setting; findings of previous investigations of the site and mitigation measures required for Castle Hill; conceptual model and risk assessment for land quality and ground contamination; and provides conclusions of the assessment and recommendations including for a preliminary phase of ground investigation and materials management processes for future earthworks phases on site. The report is accompanied by several supplementary supporting reports and maps.

4.6 The report states that overall the development site is considered to have a generally low potential for significant contamination. It states:

“The potential for contamination increases in some areas due to previous activities on site. These areas of the site are a relatively small proportion of the development site and most soils that will be encountered during the extensive cut and fill operation to form the proposed development profile are expected to be naturally derived and uncontaminated. Fourteen specific potential source areas have been identified, most of which have a very low to low potential for contamination whereas a few have a low to moderate potential. The more significant areas include the Washing Plant and associated infrastructure and an older pre1974 landfill.”

- 4.7 The report identifies the environmental sensitivity of the site as being high as there is an inner SPZ1 and potable water abstraction borehole located on site. The soils and groundwater at the site are in direct continuity with the drinking water supply. The sensitivity of the proposed development is also identified as high as the development is to be residential led, including low rise housing with gardens, and therefore the most sensitive end-users.
- 4.8 The report provides recommendations for managing and mitigating risks before and during development and identifies good practice and opportunities for the sustainable reuse, treatment or remediation of potentially contaminated land (where appropriate); the report also provides recommendations for ground investigation(s) at the site.
- 4.9 Dartford Borough Council Environmental Health and the Environment Agency have been consulted on the report and neither raise objections to the findings or recommendations.
- 4.10 A letter of objection has been received by a local resident. Many points raised relate to the principle of changes to the approved Masterplan which would be considered under a separate application and is therefore not material to this application. Their initial objection relates to procedure and considers the remediation strategy is predicated upon a revised Masterplan and final land form for the western part of the quarry while the existing permitted masterplan and final landform are embedded in the existing permission under condition 3. They therefore question whether the proposed remediation strategy is appropriate in relation to the existing permitted scheme.
- 4.11 The applicant was made aware of the objection and given the opportunity to respond. They advise that the submitted Land Quality Desk Study is submitted for the discharge of part 1 of condition 35 which seeks a site investigation strategy for approval. While the report contains certain recommendations for risk management for development, section 8.2.4 states *“Once the ground investigations and assessments phases have been completed it will be necessary to update the remediation strategy for the Stage 2 development in accordance with Part 3 of Condition 35.”* It is therefore intended that there will be an update to the remediation strategy following the investigations to address later parts of condition 35. Furthermore, the applicant states that the site investigation strategy as presented in the report is not specific to the revised masterplan presented in the figures of the report. The strategy is based around the identified potential contamination sources, and details the requirement for testing the quarry backfill,

and establishing baseline groundwater quality. The investigation strategy as presented in the Land Quality Desk Study would be applicable to the approved masterplan.

- 4.12 It is therefore considered the objection received would be insufficient grounds for refusing the application and the report submitted remains relevant for Part 1 in either scenario for the existing Masterplan or any revision which would be examined under a separate application. Any revisions to the Masterplan would not be granted by virtue of this application and this can be set out for clarity in an informative.

[Note: no formal public consultation was undertaken for this application but it is in the public domain and advertised on the weekly list. Notwithstanding this, any representations must be considered accordingly].

5.0 RECOMMENDATIONS AND CONCLUSIONS

- 5.1 The report submitted sufficiently addresses the requirements of part 1 of condition 35 of 12/01451/EQVAR and the application is therefore recommended for approval.

6.0 HUMAN RIGHTS

- 6.1 The application has been considered in the light of the Human Rights Act 1998 and it is considered that the analysis of the issues in this case, as set out in this report and recommendation, is compatible with the Act.

7.0 PUBLIC SECTOR DUTY

- 7.1 In determining this application, regard has been had to the Public Sector Equality Duty (PSED) as set down in section 149 of the Equality Act 2010, in particular with regard to the need to –
- Eliminate discrimination, harassment, victimisation and any other conduct that is prohibited by or under the Act;
 - Advance equality of opportunity between persons who share a relevant protected characteristic and persons who do not share it; and
 - Foster good relations between persons who share a relevant protected characteristic and persons who do not share it. It is considered that the application proposals would not undermine objectives of the Duty.
- 7.2 It is considered that the application proposals would not conflict with objectives of the Duty.

Case Officer	Manager
C Barker	M Pullin

Dated:	17.01.17	Dated: 20 January 2017
--------	----------	------------------------

Consultation
C/o Ebbsfleet Development Corporation
North Kent Police Station
Thames Way
Gravesend
Kent
DA11 8BD

Please ask for: Sonia Bunn
Direct Fax: (01322) 343047
DX: 142726 Dartford 7
Your Ref: **EDC/16/0112**
Our Ref: DA/16/01955/EDCCON
Date: 5th January 2017

Dear Sir,

Town and Country Planning Act 1990

**Consultation on an application for the approval of condition 35 attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the Western part of Eastern Quarry within Ebbsfleet Development Corporation
Eastern Quarry Watling Street Swanscombe Kent**

I refer to the above application which has now been considered by the Borough Council and wish to thank you for the opportunity to comment thereon.

Your ref: EDC/16/0112

Environmental health

DBC environmental health confirms that the submitted desk study is satisfactory and accept the recommendations of the report that further site investigations be carried out.

Yours faithfully



HEAD OF REGENERATION

Consultation
C/O Ebbsfleet Development Corporation
North Kent Police Station
Thames Way
Gravesend
Kent
DA11 8BD

Please ask for: Sonia Bunn
Direct Line: (01322)
Direct Fax: (01322) 343047
E-mail:
DX: 142726 Dartford 7
Your Ref: **EDC/16/0112**
Our Ref: DA/16/01955/EDCCON

Date: 9th December 2016

Dear Sir/Madam,

**Town and Country Planning Act 1990
Town and Country Planning (Development Management Procedure) (England) Order 2015**

**Consultation on an application for the approval of condition 35 attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the Western part of Eastern Quarry within Ebbsfleet Development Corporation
Eastern Quarry Watling Street Swanscombe Kent**

Your application relating to the above development was received on 6th December 2016, and was registered on 6th December 2016. The application, supporting documents and contact details will be scanned and made available on the internet. Such information is part of the statutory register and the Council has a duty to make it available. **For updates on this application you can refer to the website www.dartford.gov.uk**, (select 'planning application search')

If by 27th December 2016 you have not been given notice by the Council of its decision, you appeal to the Secretary of State in accordance with Sections 78 & 79 of the Town and Country Planning Act 1990 by notice sent within six months from that date. Appeals must be made on the form obtainable from The Planning Inspectorate, Room 3/26 (Hawk Wing) Temple Quay House, 2 the Square, Temple Quay, Bristol BS1 6PN. The decision notice will be sent via email if you have supplied an email address on the application form.

Alternatively you may agree in writing with the Council that the period within which the decision shall be given may be extended. If it appears that this will not be possible to reach a decision within the above period, I shall write further to you requesting your agreement to this.

Additionally, I wish to remind you that the proposal may also require approval under the Building Regulations. You are advised to read the guidance available on our website (www.dartford.gov.uk – Services, Building Control) and if necessary submit an application before any works commence.

If you would prefer to receive any future correspondence via email, please contact us with your email address. (Tel: 01322 343053 or planning.admin@dartford.gov.uk)

Yours faithfully

On behalf of Dartford Borough Council

Anastasia Bernard
Ebbsfleet Development Corporation
North Kent Police Station Thames Way
Northfleet
Gravesend
DA11 8BD

Our ref: KT/2017/122288/01-L01
Your ref: EDC/16/0112
Date: 13 January 2017

Dear Ms Bernard

Application for the approval of condition 35 attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the western part of Eastern Quarry.

Eastern Quarry, Watling Street, Swanscombe, Kent.

Thank you for consulting the Environment Agency.

We have reviewed the submitted Land Quality and Ground Contamination Desk Study prepared by Arup and dated 23 September.

The desk study has been carried out in line with relevant guidance. The recommendations for further investigations at the site to determine any required appropriate remediation works should be carried out.

Please do not hesitate to contact me if you have any questions.

Yours sincerely

Carly Cudmore
Planning Specialist

Direct e-mail kslplanning@environment-agency.gov.uk



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C7NE (NE)	253	1	559400 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C7NE (NE)	258	1	559400 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C8NE (NE)	262	1	560000 175050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C6SE (W)	286	1	558600 174550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C2SW (SW)	288	1	558200 173750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C7NE (NE)	290	1	559400 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C8NW (NE)	293	1	559450 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	320	1	558150 173300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C2SW (SW)	324	1	558250 173900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	340	1	560200 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	347	1	558150 173500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	358	1	560250 174800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C7NE (NE)	361	1	559300 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	371	1	558000 173400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C2SW (SW)	371	1	558200 173900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C2SW (SW)	388	1	558200 173950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C12SW (NE)	396	1	559650 175200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C12SE (NE)	419	1	560050 175200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C7NE (N)	425	1	559200 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C2SW (SW)	435	1	558150 173950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C7NE (N)	460	1	559150 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C7NW (N)	462	1	559069 175000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Saxon Developments Property Type: Undefined Or Other Location: Alkerden Lane, Swanscombe Kent Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P01474 Permit Version: 1 Effective Date: 25th February 1988 Issued Date: 25th February 1988 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Into Land Environment: Into Land Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	C3NW (S)	109	2	559100 174200
2	Discharge Consents Operator: Empire Fine Papers Ltd Property Type: Not Given Location: Empire Fine Papers Premises, London Road, GREENHITHE, Kent Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CHME.0015 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 24th June 1992 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Boiler Blowdown Authorised By Hmip Discharge: Freshwater Stream/River Environment: Not Supplied Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	C11SE (N)	603	2	559350 175280
3	Discharge Consents Operator: Reed Paper & Board (Uk) Ltd Property Type: Pulp, Paper & Board Location: River Thames At Greenhithe, Greenhithe, Kent Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctmr.0322 Permit Version: 1 Effective Date: 27th October 1976 Issued Date: 27th October 1976 Revocation Date: 18th September 1990 Discharge Type: Trade Discharges - Cooling Water Discharge: Saline Estuary Environment: Thames Receiving Water: Thames Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	C11NE (N)	869	2	559200 175500
3	Discharge Consents Operator: Empire Paper Ltd. (In Liquidation) Property Type: Pulp, Paper & Board Location: River Thames At Greenhithe, Greenhithe, Kent Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctmr.0323 Permit Version: 1 Effective Date: 27th October 1976 Issued Date: 27th October 1976 Revocation Date: 29th April 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Saline Estuary Environment: Thames Receiving Water: Thames Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	C11NE (N)	869	2	559200 175500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Hochtief Murphy Joint Venture Property Type: General Construction Work Location: Channel Tunnel Rail Link Site, Swanscombe Marsh, Swanscombe, Kent Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3286 Permit Version: 1 Effective Date: 12th June 1998 Issued Date: 6th February 2001 Revocation Date: 29th August 2002 Discharge Type: Trade Effluent Discharge: Saline Estuary Environment: Receiving Water: Tidal River Thames Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	C12NE (NE)	887	2	559900 175700
4	Discharge Consents Operator: Hochtief Murphy Joint Venture Property Type: General Construction Work Location: Channel Tunnel Rail Link Site, Swanscombe Marsh, Swanscombe, Kent Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Catm.3286 Permit Version: 2 Effective Date: 30th August 2002 Issued Date: 6th February 2001 Revocation Date: 19th November 2004 Discharge Type: Trade Effluent Discharge: Saline Estuary Environment: Receiving Water: Tidal River Thames Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	C12NE (NE)	887	2	559900 175700
5	Integrated Pollution Controls Name: Empire Paper Ltd (Dissolved) Location: Empire Paper Mill, London Road, GREENHITHE, Kent, DA9 9JQ Authority: Environment Agency, Southern Region Permit Reference: AD5106 Dated: 24th June 1992 Process Type: IPC new application Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Authorisation revokedRevoked Positional Accuracy: Unknown	C11SE (NE)	587	2	559388 175287
6	Local Authority Pollution Prevention and Controls Name: Greenhithe Service Station Location: London Road, GREENHITHE, Kent, DA9 9ES Authority: Dartford Borough Council, Environmental Health Department Permit Reference: EP/PS/008 Dated: 14th May 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	C7NW (N)	533	3	559005 174812
	Nearest Surface Water Feature	C3NE (SE)	0	-	559290 174093
7	Pollution Incidents to Controlled Waters Property Type: Construction Location: Craylands Lane, SWANSCOMBE Authority: Environment Agency, Southern Region Pollutant: Organic Chemicals : Diesel Fuels Note: Not Supplied Incident Date: 28th June 1999 Incident Reference: 2554 Catchment Area: Medway Estuary Receiving Water: Estuary Cause of Incident: Structural Failure : Pipe Failure (Above Ground) Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	C8SE (E)	55	2	559950 174750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Empire Paper Mills Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 1st October 1993 Incident Reference: SE930306 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	C12NW (NE)	732	2	559500 175500
9	Pollution Incidents to Controlled Waters Property Type: Construction Location: SWANSCOMBE Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Clay Leaking Into Marshes Incident Date: 28th March 1996 Incident Reference: 396159 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Construction Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	C12NE (NE)	796	2	560001 175601
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Empire Paper Mills Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 23rd June 1991 Incident Reference: SE910175 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	C11NE (N)	814	2	559300 175500
11	Prosecutions Relating to Authorised Processes Location: Craylands Lane, Northfleet Prosecution Text: Illegally depositing waste Prosecution Act: Epa90 S33(1)(A) Hearing Date: 19th May 2005 Verdict: Guilty Fine: 1000 Costs: 600 Positional Accuracy: Manually positioned to the road within the address or location	C8SE (E)	212	2	560001 174516
12	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Kent and East Sussex Incident Date: 8th February 2002 Incident Reference: 57410 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	C12SE (NE)	463	2	559989 175265
13	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: So/040/0037/006 Permit Version: 1 Location: Borehole Point E, (Epm) Greenhithe Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd June 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	2	558680 174000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 01/156 Permit Version: 3 Location: Borehole Point E, (Epm) Greenhithe Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Applicable Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	2	558680 174000
13	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 01/156 Permit Version: 2 Location: Borehole Point E, (Epm) Greenhithe Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Applicable Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	2	558680 174000
13	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 01/156 Permit Version: 1 Location: Borehole Point E, (Epm) Greenhithe Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Applicable Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	2	558680 174000
13	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 01/152 Permit Version: 1 Location: Point A, Borehole At Greenhithe Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: No Land (Public Water Supply) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th July 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	2	558677 174000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Water Abstractions Operator: Empire Paper Limited Licence Number: 9/40/01/0088/B/Gr Permit Version: 100 Location: Point 2, Well Nr. Western Court Farm, Swanscombe In Kent. Authority: Environment Agency, Southern Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9092 Yearly Rate (m3): 3318580 Details: As Shown Coloured Red On Licence Map. Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 30th July 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	2	558690 174010
13	Water Abstractions Operator: Empire Paper Limited Licence Number: 9/40/01/0088/B/Gr Permit Version: 100 Location: Point 3, Well Nr. Western Court Farm, Swanscombe In Kent. Authority: Environment Agency, Southern Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Shown Coloured Red On Licence Map. Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 30th July 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	2	558690 174010
14	Water Abstractions Operator: Empire Paper Ltd Licence Number: 1/0088/A/GR Permit Version: Not Supplied Location: Worcester Gate Borehole, GREENHITHE Authority: Environment Agency, Southern Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 227 Yearly Rate (m3): 82964 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	C3NE (SE)	60	2	559330 174370
15	Water Abstractions Operator: Empire Paper Ltd Licence Number: 1/0088/A/GR Permit Version: Not Supplied Location: Worcester Gate Borehole, GREENHITHE Authority: Environment Agency, Southern Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 227 Yearly Rate (m3): 82964 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	C7NE (NE)	274	2	559430 174910
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C4SW (SE)	0	2	559651 173896
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	(SE)	0	2	560078 173659

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C7SW (N)	0	2	559070 174610
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C4SE (SE)	0	2	559814 173850
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C4NW (SE)	0	2	559618 174278
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	C7SW (SW)	0	2	559069 174593
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	C7SW (N)	0	1	559074 174613
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	C8SE (E)	0	1	560000 174593
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	(SE)	0	1	560000 173728
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	C7SW (SW)	0	1	559069 174593
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(S)	0	1	558933 172981
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	C8SE (E)	0	1	560000 174452
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(S)	0	1	558708 173065
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C6SE (W)	0	1	558682 174441
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(SW)	0	1	558493 173353
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(SE)	0	1	560589 173223
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(SE)	0	1	560717 173618
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C3NE (S)	0	1	559150 174336
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C8SW (E)	0	1	559441 174544
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C8SW (E)	0	1	559523 174693

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Source Protection Zones Name: Borehole Point E, (Epm) Greenhythe Source: Environment Agency, Head Office Reference: Su460 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	C3NW (SW)	0	2	558868 174353
17	Source Protection Zones Name: Borehole Point E, (Epm) Greenhythe Source: Environment Agency, Head Office Reference: Su460 Type: Groundwater Source	C2SE (SW)	0	2	558680 174000
18	Source Protection Zones Name: Swanscombe Source: Environment Agency, Head Office Reference: Su166 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	(S)	0	2	559325 173448
19	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	C7SW (SW)	0	2	559069 174593
20	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	C7SW (SW)	0	2	559069 174593
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C8NW (NE)	142	2	559588 175003
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	C8NW (NE)	147	2	559628 174973
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	C8NW (NE)	142	2	559588 175003
	Flood Water Storage Areas None				
	Flood Defences None				
21	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	C12SE (NE)	326	2	559946 175134
22	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	C12SE (NE)	387	2	559968 175192

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	C12SE (NE)	425	2	559988 175226
24	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	C12SW (NE)	471	2	559628 175314
25	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D006	C4SW (SE)	0	2	559538 173889
26	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D006	C4SW (SE)	0	2	559520 173822

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	BGS Recorded Landfill Sites Site Name: Stone Pl Location: London Road, Stone, DARTFORD, Kent Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	C5SE (W)	548	-	558067 174455
28	Historical Landfill Sites Licence Holder: Not Supplied Location: Swale, Kent Name: Alkerden Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19303 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7005 BGS Ref: Not Supplied Other Ref: DA14	C4SW (SE)	0	2	559755 173775
29	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Swanscombe, Kent Name: Craylands Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19287 First Input Date: Not Supplied Last Input Date: 31st December 1977 Specified Waste Type: Deposited Waste included Inert, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7012 BGS Ref: Not Supplied Other Ref: DA7	C8SE (E)	102	2	559894 174595
30	Historical Landfill Sites Licence Holder: Biffa Limited Location: Swale, Kent Name: Knockhall Chase Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19283 First Input Date: 31st December 1977 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7598 BGS Ref: Not Supplied Other Ref: P/01/02, 21FB	C7SW (W)	330	2	559006 174599
31	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Manor Way, Swanscombe, Kent Name: Swanscombe Cement Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19274 First Input Date: 2nd January 1980 Last Input Date: 26th March 1993 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7594 BGS Ref: Not Supplied Other Ref: P/01/11B, 21EX	C12SW (NE)	359	2	559689 175179

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Historical Landfill Sites Licence Holder: Gretaer London Council Location: London Road, Stone, Kent Name: Stone 9a 1976 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19288 First Input Date: 31st December 1967 Last Input Date: 1st September 1979 Specified Waste: Deposited Waste included Inert, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7588 BGS Ref: 557 Other Ref: P/01/ 8A, 21HS, 2200/7603	C5SE (W)	548	2	558066 174449
33	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Stone, Kent Name: Church Path Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19278 First Input Date: 31st December 1981 Last Input Date: 1st June 1987 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7589 BGS Ref: Not Supplied Other Ref: P/01/22, 21EP	C6SW (W)	767	2	558180 174687
34	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Swanscombe Marsh, Swanscombe, Kent Name: Southpit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19261 First Input Date: 31st December 1977 Last Input Date: 31st December 1992 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7595 BGS Ref: Not Supplied Other Ref: 21EY, P/01/11A	(NE)	923	2	560115 175708
35	Licensed Waste Management Facilities (Locations) Licence Number: 401013 Location: Manor Way Industrial Park, Manor Way, Swanscombe, Kent, DA10 0LL Operator Name: Veka Recycling Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: HCI Waste TS + treatment Licence Status: Issued Issued: 17th December 2013 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	C8NE (NE)	258	2	560008 175042

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Licensed Waste Management Facilities (Locations) Licence Number: 400376 Location: Swanscombe Glass Recovery Facility, Manor Road, Swanscombe, Dartford, Kent, DA10 0LL Operator Name: Recresco Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Physical Treatment Facilities Licence Status: Issued Issued: 4th December 2013 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	C12SE (NE)	334	2	559871 175147
	Local Authority Landfill Coverage Name: Dartford Borough Council - Has no landfill data to supply		0	3	559069 174593
	Local Authority Landfill Coverage Name: Kent County Council - Had landfill data but passed it to the relevant environment agency		0	4	559069 174593
37	Registered Landfill Sites Licence Holder: Biffa Ltd Licence Reference: P/01/02 Site Location: Pit 2 Knockhall Chase, Off London Road, Greenhithe, Kent Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Kingsmill, London Road, HIGH WYCOMBE, Buckinghamshire, HP10 9TD Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 19th April 1977 Preceded By: Not Given Licence: Superseded By: P/01/02 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Asbestos Asbestos Cement Waste Slurry Contaminated Soil Kent Cat. B - Slowly Degradable * Kent Category A * Max.Waste Permitted By Licence(Stated)	C7SW (W)	318	2	559013 174589
38	Registered Landfill Sites Licence Holder: Blue Circle Industries Plc Licence Reference: P/01/11b Site Location: Swanscombe Cement Works, Swanscombe, Kent Licence Easting: 559750 Licence Northing: 175200 Operator Location: Portland House, Stag Place, WESTMINSTER, London, SW1E 5BJ Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 18th May 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: General Factory Waste(Inc. Sweepings)	C12SW (NE)	396	2	559750 175200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Registered Landfill Sites Licence Holder: Biffa Ltd Licence Reference: P/01/02 Site Location: Knockhall Chase, Greenhithe, Kent Licence Easting: 558800 Licence Northing: 174700 Operator Location: Kingsmill, London Road, HIGH WYCOMBE, Buckinghamshire, HP10 9TD Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 30th April 1985 Preceded By: P/01/02 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Aluminium Ash,Clinker Boiler Scale Calcium Chloride,Magnesium Carbonate Calcium Sulphate (Gypsum) Carbon Kieselguhr,Diatomaceous Earth Cement Waste Cleaned Rubber/Plastic Battery Cases Cork,Ebonite,Kapok Electrical Goods/Tvs/Whiteware Empty Used Containers Floor Sweepings Fragmentiser Scrap Garden/Horticultural Waste Kent Cat. B - Slowly Degradable * Kent Category A * Kent Category C Latex Leather/Leather Processing Waste Machinery Magnesium Metal Scrap Non-Special Asbestos Waste Oxides Of Iron Oxides Of Zinc & Titanium Paper Making Wastes Paper/Cardboard Waste Pharmaceutical Waste In Cat.F -Toxic * Pharmaceuticals & Veterinary Compounds Plasterboard/Plaster Plastic/Polythene (Including Sacks) Polymeric Material, Products/Scrap Sawdust/Bark Scrap Rubber (Including Tyres) Shot Blasting Residues Silicate Slag Special(Dangerous) Asbestos Waste Textiles, Rag,Wool,Cloth,Hessian Etc Tree Stumps And Roots Wood Waste/Timber Prohibited Waste Chemical Wastes Intermediates/Distillation Residues Liquid Wastes Pulverised Fuel Ash Toxic Metal Slags Toxic/Poisonous Wastes Vanadium Compounds Waste With F.Pt Less Than 55c Environment Agency must give specific authorisation for this waste to be acceptedWaste requires prior approval	C7SW (W)	623	2	558800 174700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	Registered Landfill Sites Licence Holder: G.L.C. Licence Reference: P/01/08a Site Location: Stone 9a, Stone, Greenhithe, Kent Licence Easting: 557700 Licence Northing: 174300 Operator Location: As Site Address Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Kent Cat. A -Inert * Kent Cat. B - Slowly Degradable * Kent Cat. C -Putres.Or Diff. *	C1NW (W)	993	2	557700 174300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Planning Hazardous Substance Consents Name: British Gas Plc Location: South Eastern, Greenhithe Gasholder Station, King Edward Road, DARTFORD, Kent, DA1 Authority: Dartford Borough Council Application Ref: 2 Hazardous: Part C, Flammable Substance (Not in Parts A&B), Gas or gases flammable in air, when held as a gas, where amount held is >= 15tonnes Substance: air, when held as a gas, where amount held is >= 15tonnes Maximum Quantity: 17.61 Application date: Not Supplied Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location	C6SW (W)	697	5	558221 174603

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thanet Sand Formation	C4NW (SE)	0	1	559454 174137
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	C7SW (SW)	0	1	559069 174593
42	BGS Recorded Mineral Sites Site Name: Knockhall Chalk Pit Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94760 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C3SW (S)	0	1	558865 174054
43	BGS Recorded Mineral Sites Site Name: Cobham Terrace Chalk Pits Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94763 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	0	1	558758 174033
44	BGS Recorded Mineral Sites Site Name: Knockall House Chalk Pit Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94798 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C3NE (SE)	0	1	559433 174406
45	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94807 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8SW (E)	0	1	559760 174734
46	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94810 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C4NW (SE)	0	1	559461 174267

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	BGS Recorded Mineral Sites Site Name: Swanscombe Chalk Pit Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 131029 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C3SE (S)	0	1	559220 174072
48	BGS Recorded Mineral Sites Site Name: Swanscombe Chalk Pit Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 131030 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C3SE (SE)	0	1	559428 173834
49	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94809 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C4NW (SE)	16	1	559507 174359
50	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94806 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8SW (E)	20	1	559658 174569
51	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94808 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8SW (E)	24	1	559553 174468
52	BGS Recorded Mineral Sites Site Name: Cobham Terrace Chalk Pits Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94764 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C2NE (SW)	32	1	558712 174106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94804 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8SW (E)	74	1	559775 174591
54	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94813 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8SW (E)	76	1	559442 174641
55	BGS Recorded Mineral Sites Site Name: Craylands Gravel Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94799 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C8SW (E)	81	1	559689 174516
56	BGS Recorded Mineral Sites Site Name: Craylands Gravel Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94811 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Boyn Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C4NW (SE)	112	1	559599 174331
57	BGS Recorded Mineral Sites Site Name: Galley Hill Portland Cement Works Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94815 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8NE (E)	137	1	560006 174883
58	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94801 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8SE (E)	148	1	559902 174549

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	BGS Recorded Mineral Sites Site Name: Castle Chalk Pit Location: , Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94769 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C2SE (SW)	167	1	558477 174019
60	BGS Recorded Mineral Sites Site Name: Craylands Gravel Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94805 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Boyn Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C8SE (E)	205	1	559824 174463
61	BGS Recorded Mineral Sites Site Name: Park Cliff Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94800 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8NW (NE)	224	1	559653 175016
62	BGS Recorded Mineral Sites Site Name: Milton Street Gravel Pit Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94812 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Boyn Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C4NE (E)	278	1	559861 174399
63	BGS Recorded Mineral Sites Site Name: Park Cliff Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94796 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C12SE (NE)	319	1	559785 175126
64	BGS Recorded Mineral Sites Site Name: Park Cliff Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94803 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C12SW (NE)	363	1	559603 175146

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	BGS Recorded Mineral Sites Site Name: Ingress Chalk Pit Location: Ingress Abbey, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94795 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C8NW (NE)	370	1	559446 175055
66	BGS Recorded Mineral Sites Site Name: Mount Pleasant Whiting Works Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94768 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C7SW (SW)	372	1	558850 174449
67	BGS Recorded Mineral Sites Site Name: Castle Chalk Pit Location: Stone Castle, Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 8409 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Flint Positional Accuracy: Located by supplier to within 10m	C2NE (W)	373	1	558430 174355
67	BGS Recorded Mineral Sites Site Name: Castle Chalk Pit Location: Stone Castle, Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 8409 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C2NE (W)	373	1	558430 174355
68	BGS Recorded Mineral Sites Site Name: Park Cliff Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94797 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C12SE (NE)	402	1	559810 175211
69	BGS Recorded Mineral Sites Site Name: Park Cliff Chalk Pits Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94802 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C12SW (NE)	454	1	559599 175240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	BGS Recorded Mineral Sites Site Name: Newbarn Farm Chalk Pits Location: , Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94774 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C2SW (SW)	468	1	558095 173824
71	BGS Recorded Mineral Sites Site Name: Mount Pleasant Whiting Works Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94757 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C7SW (W)	522	1	558795 174598
72	BGS Recorded Mineral Sites Site Name: Mount Pleasant Whiting Works Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94756 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	560	1	558907 174682
73	BGS Recorded Mineral Sites Site Name: Greenhithe Denehole Location: , Stone, Greenhithe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220343 Type: Underground Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C7NW (NW)	568	1	558941 174765
74	BGS Recorded Mineral Sites Site Name: London Road Gravel Pits Location: , Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94773 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C1NE (W)	602	1	558083 174209
75	BGS Recorded Mineral Sites Site Name: Mount Pleasant Whiting Works Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94758 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C6SE (W)	619	1	558682 174693

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	BGS Recorded Mineral Sites Site Name: London Road Gravel Pits Location: , Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94772 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C2NW (W)	619	1	558120 174350
77	BGS Recorded Mineral Sites Site Name: London Road Gravel Pits Location: London Road, Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94761 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C6SW (W)	720	1	558095 174501
78	BGS Recorded Mineral Sites Site Name: London Road Gravel Pits Location: London Road, Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94762 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C1NE (W)	767	1	557976 174390
79	BGS Recorded Mineral Sites Site Name: Eagle Cliff Location: , Greenhithe, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94765 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C6NE (NW)	837	1	558717 174917
80	BGS Recorded Mineral Sites Site Name: Stone Chalk Pit Location: , Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94755 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	C5SE (W)	930	1	558008 174723
81	BGS Recorded Mineral Sites Site Name: London Road Sand & Gravel Pit Location: , Stone, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94787 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C1NW (W)	970	1	557726 174304

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	C7SW (SW)	0	-	559069 174593
	Man-Made Mining Cavities Easting: 559500 Northing: 174200 Distance: 35 Quadrant Reference: C4 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Denehole:- vertical shaft having chambers at the base Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Worked Ground and Made Ground Detail:	C4NW (SE)	35	6	559500 174200
	Man-Made Mining Cavities Easting: 559500 Northing: 174700 Distance: 72 Quadrant Reference: C8 Quadrant Reference: SW Bearing Ref: E Cavity Type: Denehole:- vertical shaft having chambers at the base Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Worked Ground and Made Ground Detail:	C8SW (E)	72	6	559500 174700
	Man-Made Mining Cavities Easting: 558400 Northing: 174200 Distance: 302 Quadrant Reference: C2 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Chalkwell Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: No Details Detail:	C2NW (SW)	302	6	558400 174200
	Man-Made Mining Cavities Easting: 558900 Northing: 174900 Distance: 668 Quadrant Reference: C7 Quadrant Reference: NW Bearing Ref: NW Cavity Type: 2x Follies Commodity: Unknown Solid Geology Detail: Chalk Group Superficial Geology: Worked Ground and Made Ground, Boyne Hill Gravel Detail:	C7NW (NW)	668	6	558900 174900
	Natural Cavities Easting: 559000 Northing: 174500 Distance: 412 Quadrant Reference: C7 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group, Thanet Sand Formation Superficial Geology: Boyne Hill Gravel Detail:	C7SW (SW)	412	6	559000 174500
	Natural Cavities Easting: 558900 Northing: 174800 Distance: 621 Quadrant Reference: C7 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Solution Pipe x 10 Solid Geology Detail: Chalk Group, Thanet Sand Formation Superficial Geology: Boyne Hill Gravel, Made Ground, Worked Ground Detail:	C7NW (NW)	621	6	558900 174800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 558500 Northing: 175000 Distance: 943 Quadrant Reference: C6 Quadrant Reference: NE Bearing Ref: NW Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Worked Ground Detail:	C6NE (NW)	943	6	558500 175000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	560000 173997
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	559874 174000
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560000 174593
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	C7SW (W)	0	1	559000 174593
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	0	1	559069 174593
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	81	1	559996 174000
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	84	1	560000 174593
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	187	1	559069 175000
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	217	1	560000 175000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	0	1	559069 174593
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560000 174593
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	187	1	559069 175000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	217	1	560000 175000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C7SE (E)	0	1	559289 174525
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559486 174442
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	0	1	559069 174593
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560000 174543
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4SW (SE)	0	1	559553 173984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559192 174145
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559361 174157
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559506 174165
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559441 174544
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559416 174286
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559173 174316
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	560000 173757
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	27	1	559666 174868
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	44	1	559944 174699
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C2SW (SW)	51	1	558290 173988
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	79	1	559676 174936
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	91	1	559069 174807
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	100	1	560000 174593
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C2NE (SW)	102	1	558552 174294
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	103	1	559908 174916
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	155	1	559742 174958
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	187	1	559793 175000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	190	1	559069 175000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	217	1	560000 175000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3SW (S)	0	1	558866 173994
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3SE (S)	0	1	559209 173992

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559224 174111
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559567 174116
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559261 174366
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559440 174527
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559550 174662
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C2NE (SW)	0	1	558691 174406
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	0	1	559069 174593
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560000 174452
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559192 174145
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559371 174155
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559506 174165
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3SW (S)	0	1	558851 174000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3SE (S)	0	1	559279 174082
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559708 174156
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	560000 174058
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7NE (NE)	0	1	559197 174779
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C6SE (SW)	0	1	558751 174433
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C3SW (S)	0	1	558866 173966
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559173 174316
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C7SE (E)	0	1	559289 174525
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C7SE (E)	7	1	559326 174493

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	53	1	558433 173642
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	64	1	559959 174757
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	82	1	559948 174874
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	93	1	559633 174972
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	94	1	559819 174932
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	100	1	560000 174674
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	104	1	560000 174593
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	107	1	560000 174778
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	112	1	560000 174827
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	116	1	560000 174846
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C7NE (NE)	119	1	559419 174854
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	128	1	559906 174940
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	C7SW (N)	129	1	559074 174613
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	130	1	559081 174859
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	153	1	560020 174892
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	159	1	559757 174972
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	178	1	559929 174451
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	187	1	559069 175000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	188	1	560000 174543
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	189	1	560074 174847
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	201	1	560000 174980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C2NE (SW)	202	1	558473 174316
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	207	1	560093 174844
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	207	1	559558 175057
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	217	1	560000 175000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	231	1	559443 174955
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	240	1	560038 175002
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	240	1	560039 175000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	240	1	558783 174474
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	242	1	560043 175000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	244	1	559447 174942
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	250	1	559929 174451
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7SE (SE)	0	1	559271 174434
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7SW (W)	0	1	558785 174517
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559317 174153
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559370 174287
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	0	1	559069 174593
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C2NE (SW)	0	1	558691 174406
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560000 174593
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C3SE (S)	0	1	559102 174074
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C4SW (SE)	0	1	559667 174075
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559577 174157

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559289 174174
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559314 174177
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C2NE (SW)	1	1	558749 174098
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	50	1	559468 174741
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C2NE (SW)	55	1	558569 174114
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	64	1	559959 174757
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	88	1	559675 174885
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	101	1	560000 174716
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	112	1	560000 174827
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C2SW (SW)	162	1	558396 173889
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7NW (NW)	187	1	558846 175073
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	189	1	560074 174847
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	193	1	559924 175021
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	193	1	559069 175000
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C2NW (W)	207	1	558385 174395
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	217	1	560000 175000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (SE)	0	1	559370 174287
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C6SE (W)	0	1	558682 174441
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559150 174336
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560000 174593
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	0	1	559069 174593

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	560000 173997
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7SE (SE)	0	1	559271 174434
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7SW (W)	0	1	558785 174517
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559109 174102
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559555 174276
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559151 174382
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559737 174123
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4NE (E)	0	1	560000 174327
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	17	1	559666 174868
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C2NE (SW)	55	1	558569 174114
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	64	1	559959 174757
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	101	1	560000 174716
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	112	1	560000 174827
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C6SW (W)	162	1	558378 174429
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C7NW (NW)	187	1	558846 175073
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NE (E)	189	1	560074 174847
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	193	1	559924 175021
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7NW (N)	193	1	559069 175000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	217	1	560000 175000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559506 174165
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7SW (SW)	0	1	559069 174593

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560000 174593
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559150 174336
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559441 174544
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559468 174741
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C6SE (W)	0	1	558682 174441
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	560000 173997
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C4NW (SE)	0	1	559737 174123
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C8NW (NE)	94	1	559742 174958
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C12SW (NE)	187	1	559501 175222
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C7NE (N)	193	1	559118 175000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	193	1	559924 175021
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C8NE (NE)	217	1	560000 175000
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559177 174274
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559477 174449
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	560052 173899
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C7SE (SE)	0	1	559152 174474
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560002 174424
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C3NE (S)	0	1	559177 174274
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C8SW (E)	0	1	559477 174449

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C4SE (SE)	0	1	560052 173899
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C7SE (SE)	0	1	559152 174474
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C8SE (E)	0	1	560002 174424

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	Contemporary Trade Directory Entries Name: National Aircon Location: 1, Mounts Road, Greenhithe, Kent, DA9 9LY Classification: Air Conditioning Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	C3NW (S)	51	-	559015 174113
83	Contemporary Trade Directory Entries Name: Coverite Air Conditioning Services Ltd Location: 50, Wakefield Road, Greenhithe, Kent, DA9 9JE Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	C7NE (NE)	176	-	559420 174768
83	Contemporary Trade Directory Entries Name: A D Installations Location: 50, Wakefield Road, Greenhithe, Kent, DA9 9JE Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	C7NE (NE)	190	-	559432 174799
84	Contemporary Trade Directory Entries Name: Andrew Green Location: 58, Knockhall Road, Greenhithe, Kent, DA9 9HF Classification: French Polishing Status: Inactive Positional Accuracy: Automatically positioned to the address	C7SE (E)	184	-	559332 174676
85	Contemporary Trade Directory Entries Name: Complete Electrical Services Location: 1a, London Road, GREENHITHE, Kent, DA9 9EQ Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	C8NW (NE)	223	-	559483 174890
86	Contemporary Trade Directory Entries Name: Veka Recycling Location: Manor Way, Swanscombe, Kent, DA10 0LL Classification: Reclaiming - Waste Products Status: Active Positional Accuracy: Automatically positioned to the address	C8NE (NE)	225	-	559977 175020
86	Contemporary Trade Directory Entries Name: Clark'S Autos Location: Unit D7, Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C8NE (NE)	243	-	559960 175046
86	Contemporary Trade Directory Entries Name: Southern Counties 4x4 Centre Location: Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C8NE (NE)	256	-	559969 175056
87	Contemporary Trade Directory Entries Name: Supreme Cleaning Cleaning Location: 99, Knockhall Road, Greenhithe, Kent, DA9 9EY Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	C3NW (S)	261	-	559085 174362
87	Contemporary Trade Directory Entries Name: Supreme Cleaning Services Location: 99, Knockhall Road, GREENHITHE, Kent, DA9 9EY Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	C3NW (S)	261	-	559085 174362
87	Contemporary Trade Directory Entries Name: Supreme Cleaning Services Location: 99, Knockhall Road, Greenhithe, Kent, DA9 9EY Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	C3NW (S)	261	-	559085 174362
87	Contemporary Trade Directory Entries Name: Supreme Cleaning (Kent) Ltd Location: 99, Knockhall Road, Greenhithe, Kent, DA9 9EY Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C3NW (S)	261	-	559085 174362

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	Contemporary Trade Directory Entries Name: Adm Skips Location: Flat 8, Mounts Court, Mounts Road, Greenhithe, Kent, DA9 9LX Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C3NW (SW)	265	-	558868 174340
89	Contemporary Trade Directory Entries Name: Tarmac Location: Crossways Blvd, Johnsons Wharf, Greenhithe, Kent, DA9 9EQ Classification: Sand, Gravel & Other Aggregates Status: Active Positional Accuracy: Manually positioned within the geographical locality	C7NE (NE)	289	-	559385 174890
90	Contemporary Trade Directory Entries Name: South East Recycling Ltd Location: Unit d1, Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Recycling Centres Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C8NE (NE)	307	-	560018 175092
91	Contemporary Trade Directory Entries Name: Cover All Location: 34, Craylands Lane, Swanscombe, Kent, DA10 0LP Classification: Spraying - Paint & Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	C4NE (E)	337	-	560070 174410
92	Contemporary Trade Directory Entries Name: Omya Uk Ltd Location: Manor Way, Swanscombe, Kent, DA10 0LL Classification: Mineral Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C12SE (NE)	369	-	560082 175128
92	Contemporary Trade Directory Entries Name: Mjd Group Ltd Location: White Cliff Park, Manor Way, Swanscombe, Kent, DA10 0LL Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C12SE (NE)	383	-	560073 175149
93	Contemporary Trade Directory Entries Name: Brazier Concrete Pumping Location: 16, The Crescent, Greenhithe, Kent, DA9 9EP Classification: Concrete Pumping Services Status: Active Positional Accuracy: Automatically positioned to the address	C7SW (SW)	403	-	559011 174506
94	Contemporary Trade Directory Entries Name: Towline Location: Flat 1, 11, Cobham Terrace, Bean Road, Greenhithe, Kent, DA9 9HZ Classification: Breakdown and Recovery Status: Inactive Positional Accuracy: Automatically positioned to the address	C6SE (W)	412	-	558692 174485
95	Contemporary Trade Directory Entries Name: Lafarge Cement Uk Location: Technical Centre, 305, London Road, Greenhithe, Kent, DA9 9JQ Classification: Concrete Products Status: Inactive Positional Accuracy: Automatically positioned to the address	C2NW (W)	441	-	558329 174348
95	Contemporary Trade Directory Entries Name: !Quintessa Media' Location: 19, Brambling Close, Greenhithe, Kent, DA9 9TA Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C2NW (W)	448	-	558324 174353
96	Contemporary Trade Directory Entries Name: B A Smart Repair Location: 32, Liverymen Walk, Greenhithe, DA9 9GZ Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	C11SE (NE)	510	-	559406 175206
97	Contemporary Trade Directory Entries Name: Esso Location: London Road, Greenhithe, DA9 9EJ Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	C7NW (N)	533	-	559005 174812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Contemporary Trade Directory Entries Name: Bespoke Technology Solutions Location: 2, Bere Close, Greenhithe, Kent, DA9 9XD Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	C7NW (N)	572	-	559060 174957
99	Contemporary Trade Directory Entries Name: Greenhithe Service Centre Location: 122a, Knockhall Chase, Greenhithe, Kent, DA9 9EN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C7NW (NW)	585	-	558927 174774
99	Contemporary Trade Directory Entries Name: Greenhithe Car Centre Location: 122a, Knockhall Chase, Greenhithe, Kent, DA9 9EN Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	C7NW (NW)	585	-	558927 174774
100	Contemporary Trade Directory Entries Name: Autobench Location: 5, Carmichael Avenue, GREENHITHE, Kent, DA9 9TD Classification: Garage Equipment Status: Active Positional Accuracy: Automatically positioned to the address	C11SE (NE)	633	-	559386 175340
100	Contemporary Trade Directory Entries Name: Autobench Ltd Location: 5, Carmichael Avenue, Greenhithe, Kent, DA9 9TD Classification: Garage Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	C11SE (NE)	633	-	559386 175340
101	Contemporary Trade Directory Entries Name: United Carpet Cleaning Masters Location: 192c, London Road, Greenhithe, Kent, DA9 9JF Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	C6SW (W)	645	-	558293 174593
101	Contemporary Trade Directory Entries Name: Greenhithe Fantastic Cleaners Location: 28, Providence Street, Greenhithe, Kent, DA9 9AA Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	C6SW (W)	682	-	558284 174633
101	Contemporary Trade Directory Entries Name: Greenhithe Cleaners Location: 28, Providence Street, Greenhithe, Kent, DA9 9AA Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	C6SW (W)	682	-	558284 174633
102	Contemporary Trade Directory Entries Name: Ovensclean Location: Clarinda House, Clovelly Place, Greenhithe, Kent, DA9 9FB Classification: Oven cleaning Status: Active Positional Accuracy: Automatically positioned to the address	C11SE (NE)	677	-	559411 175405
102	Contemporary Trade Directory Entries Name: Burlingtons Location: Bessborough House, Carmichael Avenue, Greenhithe, Kent, DA9 9FF Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Manually positioned to the address or location	C11SE (N)	682	-	559374 175391
103	Contemporary Trade Directory Entries Name: Cubewing Systems Location: 45, Ingress Park Avenue, Greenhithe, Kent, DA9 9GN Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	C11SW (N)	690	-	559087 175161
103	Contemporary Trade Directory Entries Name: Milestone Recovery Location: 42, Ingress Park Avenue, Greenhithe, Kent, DA9 9GN Classification: Breakdown and Recovery Status: Inactive Positional Accuracy: Automatically positioned to the address	C11SW (N)	690	-	559087 175161

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	Contemporary Trade Directory Entries Name: Mixetech Ltd Location: Station Rd, Greenhithe, Kent, DA9 9NG Classification: Chemical Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C6SE (W)	715	-	558427 174744
104	Contemporary Trade Directory Entries Name: Universal Engineers Peckham Ltd Location: Station Rd, Greenhithe, Kent, DA9 9NG Classification: Chemical Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C6NW (W)	740	-	558418 174768
105	Contemporary Trade Directory Entries Name: J J M Electrical Services Location: 18, Castle Street, Greenhithe, Kent, DA9 9AB Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	C6SW (W)	719	-	558293 174683
106	Contemporary Trade Directory Entries Name: Pest Check Location: 66, The Boulevard, Greenhithe, Kent, DA9 9GW Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	C11SE (N)	720	-	559113 175225
107	Contemporary Trade Directory Entries Name: Dartford Services Location: 5, The Avenue, Greenhithe, Kent, DA9 9NT Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C11SW (N)	821	-	558859 175105
107	Contemporary Trade Directory Entries Name: Dartford Ironing Laundry & Cleaning Services Location: 5, The Avenue, Greenhithe, Kent, DA9 9NT Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C11SW (N)	821	-	558859 175105
108	Contemporary Trade Directory Entries Name: K D M Motors Location: 16, Whitby Close, Greenhithe, Kent, DA9 9QE Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	C5SE (W)	831	-	558041 174611
108	Contemporary Trade Directory Entries Name: S L L Cleaning & Ironing Services Location: 2, Whitby Close, Greenhithe, Kent, DA9 9QE Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	C5SE (W)	839	-	558068 174653
109	Contemporary Trade Directory Entries Name: Kestner Engineering Co Ltd Location: Station Rd, Greenhithe, Kent, DA9 9NG Classification: Chemical Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C6NW (NW)	835	-	558412 174866
110	Contemporary Trade Directory Entries Name: Access Control Services Location: 20-26, High Street, Greenhithe, Kent, DA9 9NN Classification: Door & Gate Operating Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	C11SW (NW)	930	-	558783 175184
111	Contemporary Trade Directory Entries Name: Cablemech Ltd Location: Station Rd, Greenhithe, Kent, DA9 9NG Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	C6NW (NW)	943	-	558416 174980
112	Contemporary Trade Directory Entries Name: Apple Gas Heating Location: 71, Hedge Place Road, Greenhithe, Kent, DA9 9JY Classification: Boilers - Servicing, Replacements & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	C1NW (W)	973	-	557671 174148

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	Contemporary Trade Directory Entries Name: Lennox Foundry Co Ltd Location: Station Rd, Greenhithe, Kent, DA9 9NG Classification: Foundries Status: Inactive Positional Accuracy: Manually positioned to the address or location	C6NW (NW)	983	-	558341 174998
114	Fuel Station Entries Name: Rss Greenhithe Location: London Road, Greenhithe, Kent, DA9 9EJ Brand: ESSO Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	C7NW (N)	533	-	559005 174812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Ancient Woodland Name: Not Supplied Reference: 1498361 Area(m²): 113330.66 Type: Ancient and Semi-Natural Woodland	(SW)	285	7	558196 173079
116	Ancient Woodland Name: Not Supplied Reference: 1486701 Area(m²): 6129.48 Type: Ancient and Semi-Natural Woodland	(SW)	386	7	558086 173104
117	Ancient Woodland Name: Not Supplied Reference: 1498349 Area(m²): 162274.17 Type: Ancient and Semi-Natural Woodland	(SW)	388	7	558088 173059
118	Areas of Unadopted Green Belt Authority: Dartford Borough Council Plan Name: Dartford Borough Local Plan Review Status: Second Deposit Draft Plan Date: 30th September 2002	(S)	8	5	558702 172984
119	Marine Nature Reserves Name: Thames Estuary Multiple Area: Y Area (m2): 10874320.9 Source: Natural England	C11SW (N)	690	7	558868 175227
120	National Nature Reserves Name: Swanscombe Skull Site Multiple Areas: N Total Area (m2): 20873.27 Source: Natural England Reference: 1006139 Designation Date: Not Supplied	C4NW (E)	126	7	559698 174342
121	Nitrate Vulnerable Zones Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	C3NE (SE)	0	8	559338 174348
122	Sites of Special Scientific Interest Name: Swanscombe Skull Site Multiple Areas: N Total Area (m2): 38785.32 Source: Natural England Reference: 1003665 Designation Details: National Nature Reserve Designation Date: 11th January 1988 Date Type: Notified Designation Details: Local Nature Reserve Designation Date: 11th January 1988 Date Type: Notified Designation Details: Nature Conservation Review Designation Date: 11th January 1988 Date Type: Notified Designation Details: Geological Conservation Review Designation Date: 11th January 1988 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 11th January 1988 Date Type: Notified	C4NW (SE)	28	7	559568 174265
123	Sites of Special Scientific Interest Name: Darenth Wood Multiple Areas: Y Total Area (m2): 1229090.15 Source: Natural England Reference: 1003548 Designation Details: Local Wildlife Site Designation Date: 22nd March 1989 Date Type: Notified Designation Details: Nature Conservation Review Designation Date: 22nd March 1989 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 22nd March 1989 Date Type: Notified	(SW)	299	7	558164 173069

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Thurrock Borough Council - Environmental Health Department Dartford Borough Council - Environmental Health Department	November 2013 October 2014	Annually Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region Environment Agency - Southern Region Environment Agency - Thames Region	April 2016 April 2016 April 2016	Quarterly Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	As notified As notified
Integrated Pollution Controls Environment Agency - Anglian Region Environment Agency - Southern Region	October 2008 October 2008	Not Applicable Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region Environment Agency - Southern Region	April 2016 April 2016	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Thurrock Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department	February 2015 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Thurrock Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department	February 2015 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Thurrock Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department	February 2015 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Southern Region Environment Agency - Anglian Region Environment Agency - Thames Region	December 1999 September 1999 September 1999	Not Applicable Not Applicable Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	As notified As notified
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	As notified As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	April 2016 April 2016 April 2016	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Anglian Region Environment Agency - Southern Region	January 2016 January 2016	Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Industry Act Referrals Environment Agency - Anglian Region Environment Agency - Southern Region	April 2016 April 2016	Quarterly Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	April 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	May 2016	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region Environment Agency - Southern Region	October 2008 October 2008	Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	May 2016 May 2016 May 2016	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	April 2016 April 2016 April 2016 April 2016	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Dartford Borough Council - Environmental Health Department Kent County Council - Waste Management Group Thurrock Borough Council - Environmental Health Department	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Dartford Borough Council - Environmental Health Department Kent County Council - Waste Management Group Thurrock Borough Council - Environmental Health Department	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area	March 2003 March 2003	Not Applicable Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	February 2016	Bi-Annually
Explosive Sites Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Thurrock Borough Council - Development Control London Port Health Authority - Environmental Services Dartford Borough Council Kent County Council	December 2015 January 2008 January 2016 January 2016	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Thurrock Borough Council - Development Control London Port Health Authority - Environmental Services Dartford Borough Council Kent County Council	December 2015 January 2008 January 2016 January 2016	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2016	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	June 2015	Bi-Annually
Areas of Adopted Green Belt Dartford Borough Council Thurrock Borough Council - Development Control	May 2016 May 2016	As notified As notified
Areas of Unadopted Green Belt Dartford Borough Council Thurrock Borough Council - Development Control	November 201 November 201	As notified As notified
Areas of Outstanding Natural Beauty Natural England	April 2016	Bi-Annually
Environmentally Sensitive Areas Natural England	April 2016	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	April 2016	Bi-Annually
Marine Nature Reserves Natural England	April 2016	Bi-Annually
National Nature Reserves Natural England	April 2016	Bi-Annually
National Parks Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2016	Bi-Annually
Special Areas of Conservation Natural England	April 2016	Bi-Annually
Special Protection Areas Natural England	April 2016	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Dartford Borough Council - Environmental Health Department Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR	Telephone: 01322 343233 Fax: 01322 343963 Website: www.dartford.gov.uk
4	Kent County Council - Waste Management Group Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT	Telephone: 01622 605976 Website: www.kent.gov.uk
5	Dartford Borough Council Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR	Telephone: 01322 343434 Fax: 01322 343047 Website: www.dartford.gov.uk
6	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
7	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

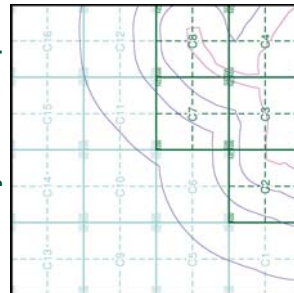
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice C



Order Details

Order Number: 88304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF

Bedrock Aquifer Designation

General

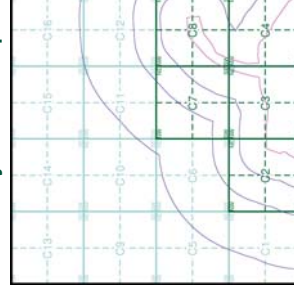
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landlip)

Site Sensitivity Context Map - Slice C



Order Details

Order Number: 88304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF

Superficial Aquifer Designation

General

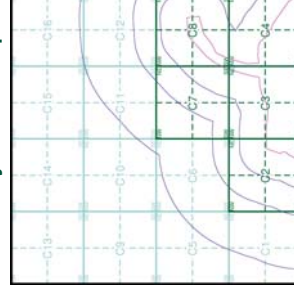
- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landlip)

Site Sensitivity Context Map - Slice C



Order Details

Order Number: 89304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

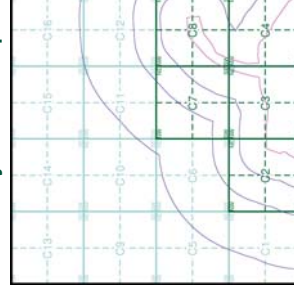
Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF

Source Protection Zones

- General**
- Specified Site
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Agency and Hydrological**
- Inner zone (Zone 1)
 - Inner zone - subsurface activity only (Zone 1c)
 - Outer zone (Zone 2)
 - Outer zone - subsurface activity only (Zone 2c)
 - Total catchment (Zone 3)
 - Total catchment - subsurface activity only (Zone 3c)
 - Special Interest (Zone 4)
 - Source Protection Zone Borehole

Site Sensitivity Context Map - Slice C



Order Details

Order Number: 88304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Site: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

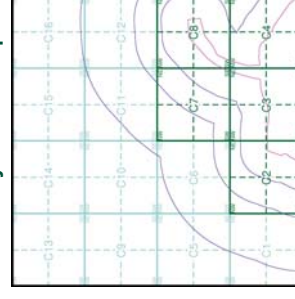
Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF

Sensitive Land Uses

- General**
- Specified Site
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Sensitive Land Uses**
- Ancient Woodland
 - Area of Adopted Green Belt
 - Area of Unadopted Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Area
 - Forest Park
 - Local Nature Reserve
 - Marine Nature Reserve
 - National Nature Reserve
 - National Park
 - Nitrate Sensitive Area
 - Nitrate Vulnerable Zone
 - Ramsar Site
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area
 - World Heritage Sites

Site Sensitivity Context Map - Slice C

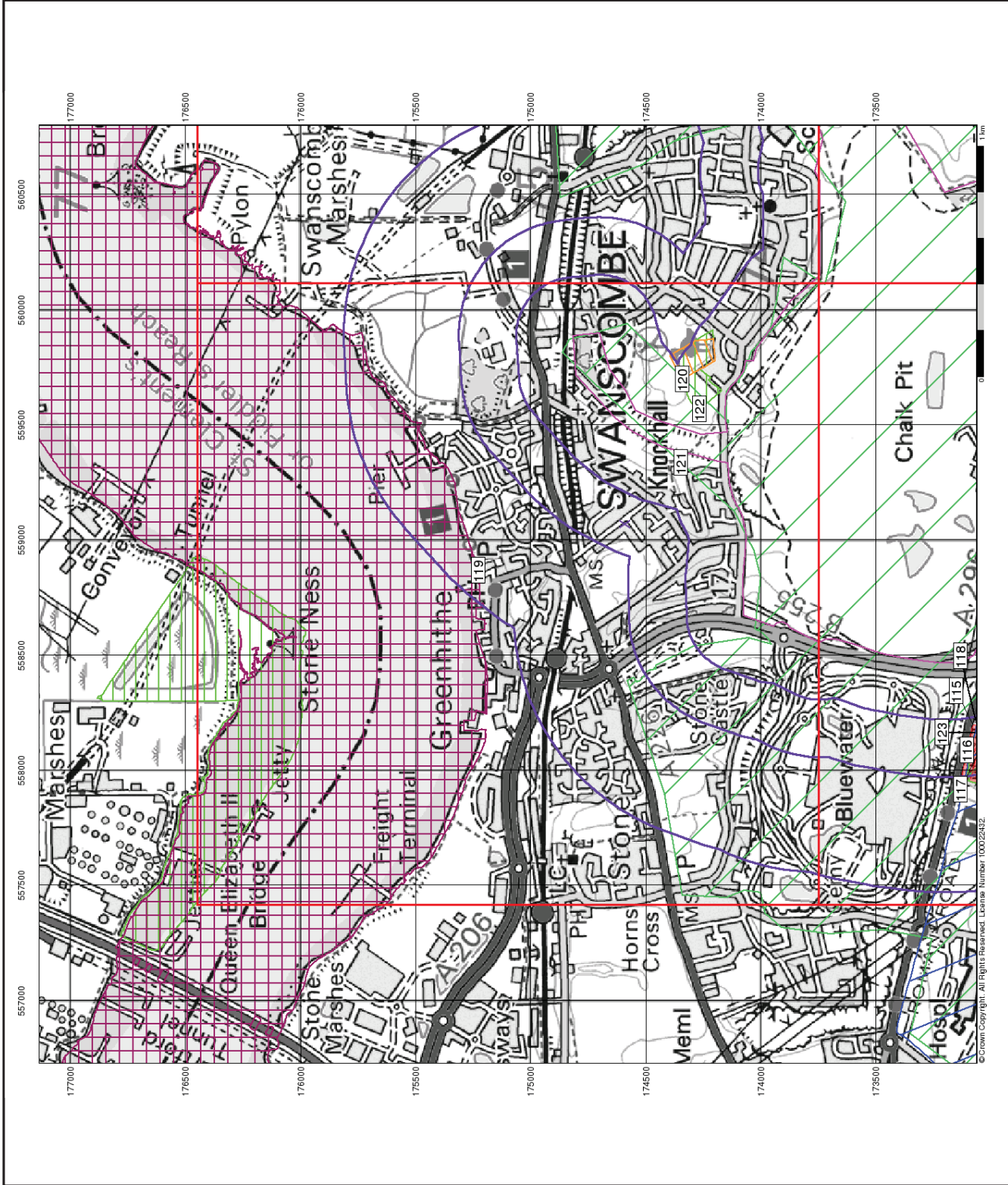


Order Details

Order Number: 88304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF



BGS Flood GFS Data

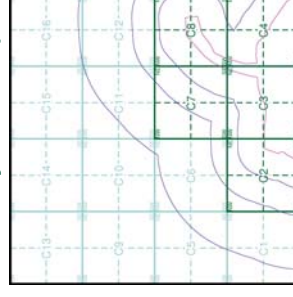
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice

Agency and Hydrological (Flood)

-  Limited Potential for Groundwater Flooding to Occur
-  Potential for Groundwater Flooding of Property Situated Below Ground Level
-  Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice C



Order Details

Order Number: 88304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

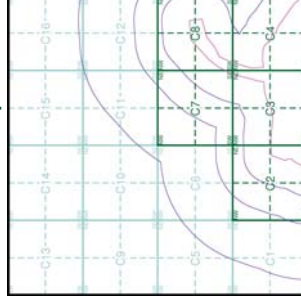
Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF



Industrial Land Use Map

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipeline
 - Underground Electrical Cables

Industrial Land Use Map - Slice C

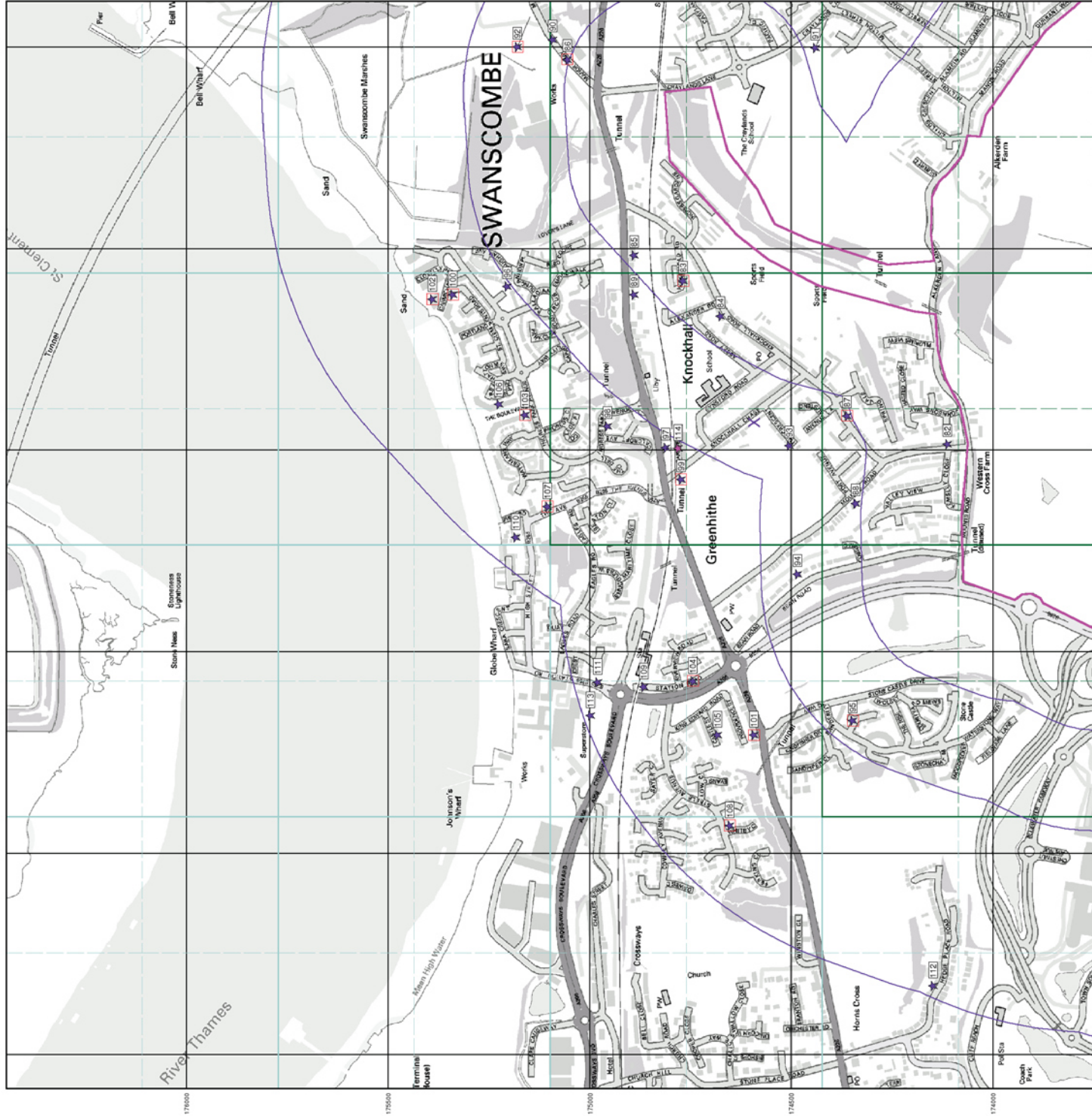


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

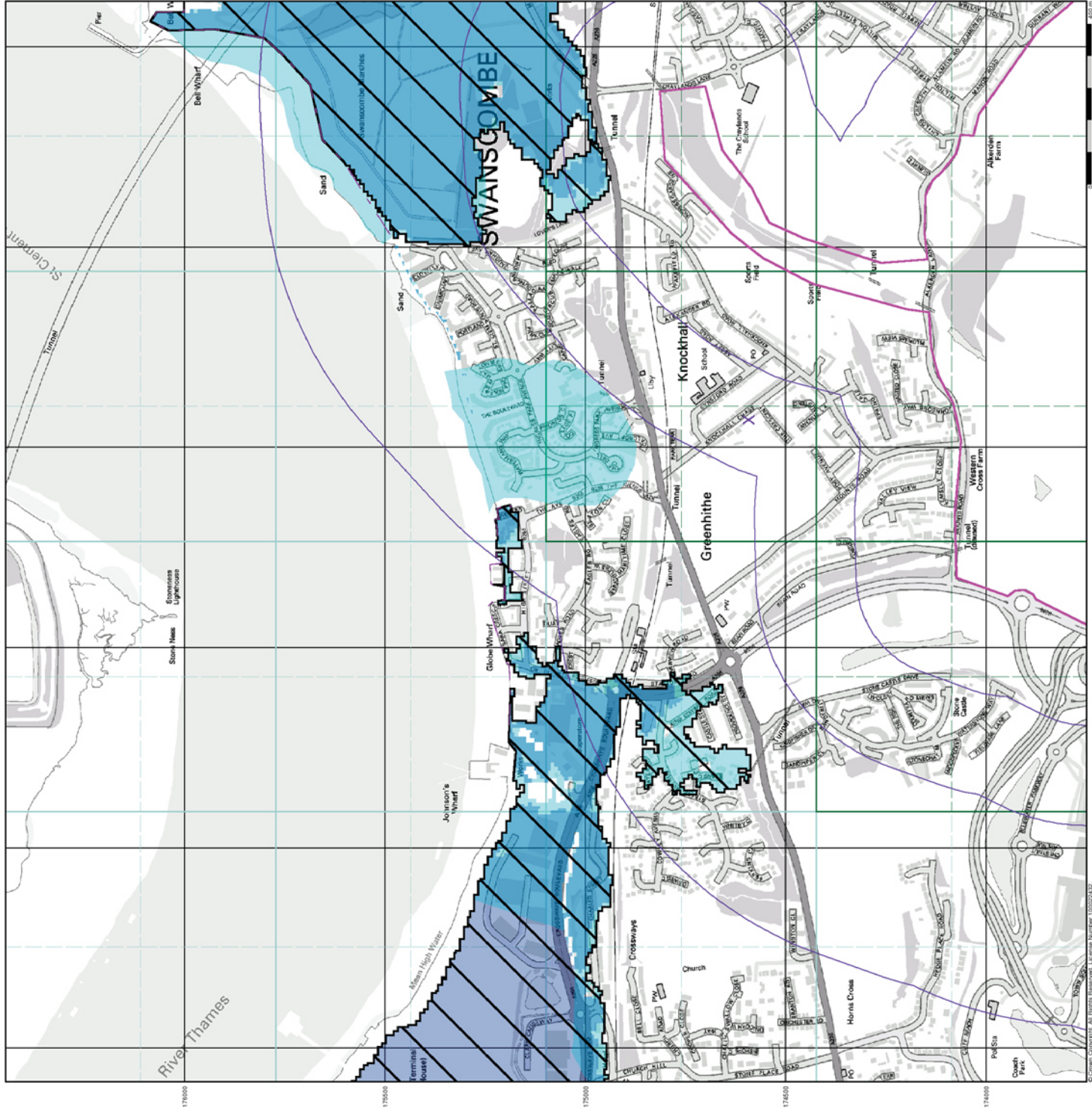


General

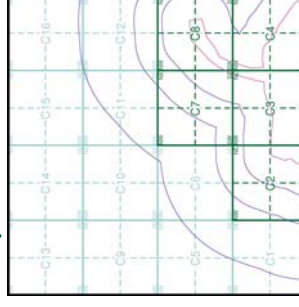
- Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence



Flood Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

- General**
- Specified Site
 - Specified Buffer(s)
 - ✕ Bearing Reference Point
 - Map ID
 - Several of Type at Location

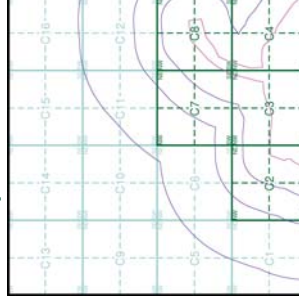
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



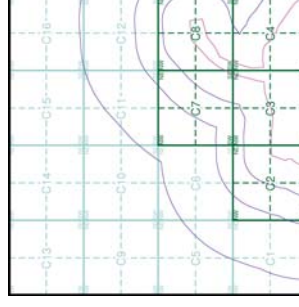
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID

Detailed River Network Data

-  Primary River
-  Secondary River
-  Tertiary River
-  Canal
-  Canal Tunnel
-  Undefined River
-  Lake/Reservoir
-  Offline Drainage Feature
-  Extended Culvert (greater than 50m)
-  Underground River (inferred)
-  Underground River (local knowledge)
-  Downstream of High Water Mark
-  Not assigned River feature

EANRW Detailed River Network Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Envirocheck[®] Report:

Historical Data Report Datasheet

Order Details:

Order Number:

89304408_1_1

Customer Reference:

250122/00

National Grid Reference:

559070, 174590

Slice:

C

Site Area (Ha):

272.38

Search Buffer (m):

1000

Site Details:

Barton Wilmore, The Observatory
Southfleet Road
SWANSCOMBE
Kent
DA10 0DF

Client Details:

Mr P Measham
Ove Arup & Partners International Ltd
13 Fitzroy Street
London
W1T 4BQ

Report Section	Page Number
Summary	-
Historical Building Plans Information	-
Historical Land Use Information	1
Historical Tanks and Energy Facilities	5
Historical Map List	6
Useful Contacts and Further Information	9

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer. A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Building Plans Information					
Areas Cleared Due To Enemy Action					
Above Ground Fuel Tanks (100m)				n/a	n/a
Asbestos (100m)				n/a	n/a
Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)				n/a	n/a
Electricity Generation (100m)				n/a	n/a
Electricity Sub-Station (100m)				n/a	n/a
Gas Industry (100m)				n/a	n/a
Gas Storage (100m)				n/a	n/a
Gas Use (100m)				n/a	n/a
Oil Industry (100m)				n/a	n/a
Oil Storage (100m)				n/a	n/a
Oil Use (100m)				n/a	n/a
Paint based Oils (100m)				n/a	n/a
Paraffin (100m)				n/a	n/a
Petrol and Diesel Industry (100m)				n/a	n/a
Petrol and Diesel Storage (100m)				n/a	n/a
Petrol and Diesel Use (100m)				n/a	n/a
Potential Fuel Gas (100m)				n/a	n/a
Potential Fuel Oil (100m)				n/a	n/a
Potential Fuel Use (100m)				n/a	n/a
Potential Petrol and Diesel (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Potentially Fuel-related Tanks (100m)				n/a	n/a
Underground Fuel Tanks (100m)				n/a	n/a
Historical Land Use Information					
Former Marshes					
Historical Flood Liabilities					
Potentially Contaminative Industrial Uses (Past Land Use)	pg 1	9	15	8	26
Potentially Infilled Land (Non-Water)	pg 3	3	5	1	4
Potentially Infilled Land (Water)	pg 4				1

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Tanks and Energy Facilities					
Electrical Sub Station Facilities (100m)	pg 5		2	n/a	n/a
Electricity Industry Facilities (100m)	pg 5		3	n/a	n/a
Gas Industry Facilities (100m)				n/a	n/a
Gas Monitoring Facilities (100m)				n/a	n/a
Miscellaneous Power Facilities (100m)				n/a	n/a
Oil Industry Facilities (100m)				n/a	n/a
Petroleum Storage Facilities (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Tanks (100m)	pg 5	2	2	n/a	n/a

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898 - 1938	C8SW (E)	0	1	559624 174551
2	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	C3NE (SE)	0	1	559433 174410
3	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	C3SW (S)	0	1	558866 174051
4	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910	C2SE (SW)	0	1	558753 174037
5	Potentially Contaminative Industrial Uses (Past Land Use) Use: General quarrying Date of Mapping: 1961	C3NE (S)	0	1	559195 174139
6	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1961	C8SW (E)	0	1	559485 174456
7	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1961	C3NE (SE)	0	1	559404 174269
8	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1946	C8SW (E)	0	1	559715 174755
9	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1992	C3NE (S)	0	1	559186 174128
10	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1869 - 1991	C8NW (NE)	19	1	559589 174860
11	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1946	C8SE (E)	21	1	559920 174711
12	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910 - 1992	C2NE (SW)	24	1	558560 174272
13	Potentially Contaminative Industrial Uses (Past Land Use) Use: Cement, lime & plaster products [manufacture] Date of Mapping: 1869 - 1946	C8NW (NE)	26	1	559769 175058
14	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1869 - 1898	C8NE (E)	31	1	559900 174842
15	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910	C2NE (SW)	31	1	558710 174105
16	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1910	C6SE (W)	48	1	558621 174449
17	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1961 - 1991	C8NE (E)	53	1	559919 174869
18	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1938	C8NW (NE)	59	1	559669 174918
19	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1991	C8SE (E)	98	1	559998 174683
20	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1872 - 1992	C7NW (N)	138	1	559062 174803
21	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898 - 1910	C8NW (NE)	142	1	559614 174930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1992	C8NW (NE)	175	1	559619 174985
23	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	C7NE (NE)	243	1	559338 174968
24	Potentially Contaminative Industrial Uses (Past Land Use) Use: Paper packaging products [manufacture] Date of Mapping: 1938 - 1961	C7NE (NE)	249	1	559436 174951
25	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1938	C8NW (NE)	308	1	559531 175047
26	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898 - 1938	C7SW (W)	315	1	559004 174616
27	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1910	C12SW (NE)	340	1	559652 175221
28	Potentially Contaminative Industrial Uses (Past Land Use) Use: Technical & environmental testing & analysis Date of Mapping: 1992	C2NW (W)	340	1	558365 174412
29	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1992	C7NE (NE)	368	1	559318 174936
30	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1961 - 1996	C11SE (N)	386	1	559223 175145
31	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	C2SW (SW)	462	1	558099 173812
32	Potentially Contaminative Industrial Uses (Past Land Use) Use: General quarrying Date of Mapping: 1872	C7SW (W)	479	1	558879 174595
33	Potentially Contaminative Industrial Uses (Past Land Use) Use: Paper packaging products [manufacture] Date of Mapping: 1910 - 1938	C11SE (N)	503	1	559318 175199
34	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1910 - 1938	C7NW (NW)	514	1	558883 174884
35	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898 - 1938	C2NW (W)	525	1	558194 174368
36	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910	(NE)	542	1	560187 175266
37	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1872 - 1938	C6SE (W)	640	1	558761 174715
38	Potentially Contaminative Industrial Uses (Past Land Use) Use: Road haulage Date of Mapping: 1910	C12SW (NE)	655	1	559512 175432
39	Potentially Contaminative Industrial Uses (Past Land Use) Use: Cement, lime & plaster products [manufacture] Date of Mapping: 1898 - 1938	C6SW (W)	659	1	558263 174657
40	Potentially Contaminative Industrial Uses (Past Land Use) Use: Transport support & cargo handling Date of Mapping: 1910 - 1961	C11SE (N)	659	1	559328 175365
41	Potentially Contaminative Industrial Uses (Past Land Use) Use: Transport support & cargo handling Date of Mapping: 1898	C12NW (NE)	676	1	559515 175461
42	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1961	C6SW (W)	677	1	558256 174659

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1872 - 1992	C7NW (NW)	686	1	558826 174799
44	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1910 - 1938	C7NW (NW)	696	1	558845 174857
45	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910 - 1938	C6SW (W)	701	1	558191 174581
46	Potentially Contaminative Industrial Uses (Past Land Use) Use: Oil, petroleum & gas refining & storage Date of Mapping: 1910 - 1992	C6SW (W)	709	1	558215 174614
46	Potentially Contaminative Industrial Uses (Past Land Use) Use: Gas manufacture & distribution Date of Mapping: 1898	C6SW (W)	712	1	558219 174621
47	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	C5SE (W)	728	1	558088 174506
48	Potentially Contaminative Industrial Uses (Past Land Use) Use: General quarrying Date of Mapping: 1872	C6NW (W)	748	1	558217 174913
49	Potentially Contaminative Industrial Uses (Past Land Use) Use: Military Land Date of Mapping: 1898	C5SE (W)	787	1	558045 174545
50	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1992	C1NE (W)	814	1	557840 174151
51	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1898 - 1994	C12NE (NE)	838	1	560109 175622
52	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1869	(NE)	852	1	560127 175631
53	Potentially Contaminative Industrial Uses (Past Land Use) Use: Transport support & cargo handling Date of Mapping: 1910 - 1996	C11SW (N)	875	1	558839 175167
54	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1961	C1NE (W)	886	1	557784 174395
55	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1961 - 1992	C6NW (NW)	902	1	558364 174921
56	Potentially Contaminative Industrial Uses (Past Land Use) Use: Transport support & cargo handling Date of Mapping: 1898	C11SW (NW)	911	1	558787 175158
57	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1946	C12NE (NE)	961	1	560103 175750
58	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	C3SW (S)	0	1	558866 174051
59	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	C2SE (SW)	0	1	558757 174037
60	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	C7SE (E)	0	1	559339 174575
61	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	C8NE (E)	31	1	559900 174842
62	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	C2NE (SW)	31	1	558710 174105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	C8SE (E)	56	1	559941 174663
64	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	C8NW (NE)	142	1	559614 174930
65	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	C7NE (NE)	243	1	559338 174968
66	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	C7SW (NW)	318	1	559041 174624
67	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	C2NW (W)	524	1	558200 174374
68	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	(NE)	542	1	560187 175266
69	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	C6SW (W)	701	1	558191 174581
70	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	C1NE (W)	887	1	557787 174396
71	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1898	C6NW (NW)	959	1	558401 175083

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Electrical Sub Station Facilities Scale of Mapping: 1:1,250 Date of Mapping: 1953 - 1969	C3NE (S)	11	1	559247 174149
72	Electrical Sub Station Facilities Scale of Mapping: 1:2,500 Date of Mapping: 1954	C3NE (S)	12	1	559247 174149
73	Electricity Industry Facilities Scale of Mapping: 1:1,250 Date of Mapping: 1973	C4SE (SE)	10	1	559788 174043
74	Electricity Industry Facilities Scale of Mapping: 1:1,250 Date of Mapping: 1975	C8SW (E)	43	1	559553 174710
75	Electricity Industry Facilities Scale of Mapping: 1:1,250 Date of Mapping: 1975	C8SE (E)	70	1	559966 174750
76	Tanks Scale of Mapping: 1:2,500 Date of Mapping: 1954	C4SW (SE)	0	1	559441 174081
76	Tanks Scale of Mapping: 1:1,250 Date of Mapping: 1953 - 1969	C4SW (SE)	0	1	559440 174079
77	Tanks Scale of Mapping: 1:2,500 Date of Mapping: 1954	C8NE (E)	54	1	559931 174846
77	Tanks Scale of Mapping: 1:1,250 Date of Mapping: 1953 - 1975	C8NE (E)	55	1	559931 174848

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

1:10,560	Mapsheet	Published Date
Kent	003A_00	1869
Kent	010_00	1869
Essex	088_00	1872
Essex	083_00	1873
Kent	003_00	1875
Kent	003_SE	1898
Kent	009_NE	1898
Kent	010_NW	1898
Essex	083_SE	1898
Essex	083_SW	1898
Essex	088_NE	1898
Kent	003A_SW	1899
Kent	003A_SW	1910
Kent	003_SE	1910
Kent	009_NE	1910
Kent	010_NW	1910
Essex	095_NW	1923
Essex	095_SW	1923
Kent	003A_SW	1938
Kent	003_SE	1938
Kent	009_NE	1938
Essex	095_NW	1938
Kent	010_NW	1946
Ordnance Survey Plan	TQ57NE	1961
Ordnance Survey Plan	TQ57SE	1961
Ordnance Survey Plan	TQ67NW	1961
Ordnance Survey Plan	TQ67SW	1962
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	TQ67SW	1991
Ordnance Survey Plan	TQ57SE	1992
Ordnance Survey Plan	TQ67NW	1994
Ordnance Survey Plan	TQ57NE	1996

The following mapping has been analysed for Historical Tanks and Energy Facilities:

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	TQ5874	1953
Ordnance Survey Plan	TQ5874	1953
Ordnance Survey Plan	TQ5874	1953
Ordnance Survey Plan	TQ5875	1954
Ordnance Survey Plan	TQ5974	1954
Ordnance Survey Plan	TQ5974	1954
Ordnance Survey Plan	TQ5974	1954
Ordnance Survey Plan	TQ5974	1954
Ordnance Survey Plan	TQ5975	1954
Ordnance Survey Plan	TQ5975	1954
Ordnance Survey Plan	TQ6074	1954
Ordnance Survey Plan	TQ6074	1954
Ordnance Survey Plan	TQ6075	1954
Ordnance Survey Plan	TQ6073	1961
Ordnance Survey Plan	TQ5873	1963
Ordnance Survey Plan	TQ5873	1963
Ordnance Survey Plan	TQ5973	1963
Ordnance Survey Plan	TQ5973	1963
Ordnance Survey Plan	TQ6073	1970
Ordnance Survey Plan	TQ6075	1971
Ordnance Survey Plan	TQ5973	1978
Ordnance Survey Plan	TQ5973	1978
Ordnance Survey Plan	TQ6073	1986
1:1,250	Mapsheet	Published Date
Ordnance Survey Plan	TQ5874NE	1953
Ordnance Survey Plan	TQ5874SE	1953
Ordnance Survey Plan	TQ5874SE	1953
Ordnance Survey Plan	TQ5874SE	1953
Ordnance Survey Plan	TQ5874SW	1953
Ordnance Survey Plan	TQ5875SE	1953
Ordnance Survey Plan	TQ5974NE	1953
Ordnance Survey Plan	TQ5974NW	1953
Ordnance Survey Plan	TQ5974NW	1953
Ordnance Survey Plan	TQ5974SE	1953
Ordnance Survey Plan	TQ5974SE	1953
Ordnance Survey Plan	TQ5974SW	1953
Ordnance Survey Plan	TQ5974SW	1953
Ordnance Survey Plan	TQ5974SW	1953

1:1,250	Mapsheet	Published Date
Ordnance Survey Plan	TQ5974SW	1953
Ordnance Survey Plan	TQ5975SE	1953
Ordnance Survey Plan	TQ5975SW	1953
Ordnance Survey Plan	TQ5975SW	1953
Ordnance Survey Plan	TQ6074NW	1953
Ordnance Survey Plan	TQ6074SW	1953
Ordnance Survey Plan	TQ6074SW	1953
Ordnance Survey Plan	TQ6075SW	1953
Ordnance Survey Plan	TQ5874SE	1958
Ordnance Survey Plan	TQ5874SE	1958
Ordnance Survey Plan	TQ5874SE	1958
Ordnance Survey Plan	TQ5974SE	1959
Ordnance Survey Plan	TQ5974SE	1959
Ordnance Survey Plan	TQ5874SE	1963
Ordnance Survey Plan	TQ5874SE	1963
Ordnance Survey Plan	TQ5874SE	1963
Ordnance Survey Plan	TQ5874NE	1969
Ordnance Survey Plan	TQ5974NE	1969
Ordnance Survey Plan	TQ5974NW	1969
Ordnance Survey Plan	TQ5974NW	1969
Ordnance Survey Plan	TQ5974SW	1969
Ordnance Survey Plan	TQ5974SW	1969
Ordnance Survey Plan	TQ5974SW	1969
Ordnance Survey Plan	TQ5974SW	1969
Ordnance Survey Plan	TQ5875SE	1971
Ordnance Survey Plan	TQ5975SE	1971
Ordnance Survey Plan	TQ5975SW	1971
Ordnance Survey Plan	TQ5975SW	1971
Ordnance Survey Plan	TQ6074NW	1971
Ordnance Survey Plan	TQ6074SW	1971
Ordnance Survey Plan	TQ6074SW	1971
Ordnance Survey Plan	TQ6075SW	1972
Ordnance Survey Plan	TQ5874SW	1973
Ordnance Survey Plan	TQ5974SE	1973
Ordnance Survey Plan	TQ5974SE	1973
Ordnance Survey Plan	TQ5974NE	1975

Contact	Name and Address	Contact Details
1	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmark.co.uk

Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

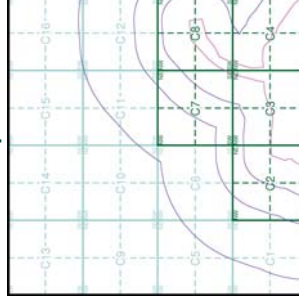
Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.

Historical Data Report - Slice Map C

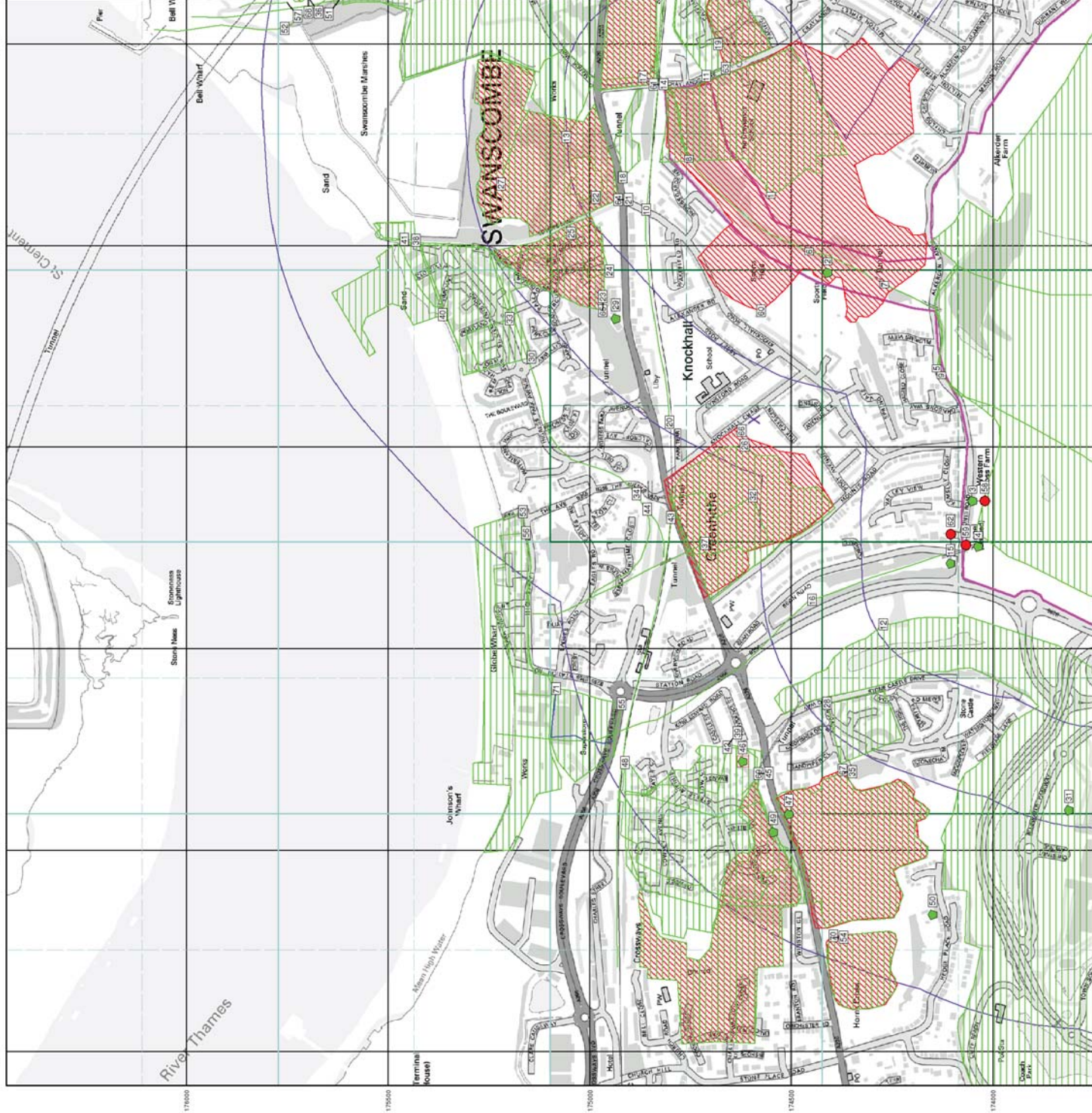


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



- General**
- Specified Site
 - Several of Type at Location
 - Bearing Reference Point
 - Map ID
- Historical Building Plans**
- Area Cleared due to Enemy Action
 - Asbestos
 - Above Ground Fuel Tanks
 - Benzene/Benzocyclohexene
 - Naphthalene/Kerosene
 - Electricity Generation
 - Electricity Sub-Stations
 - Gas Industry
 - Gas Storage
 - Gas Use
 - Oil Industry
 - Oil Storage
 - Oil Use
 - Paint based Oils
 - Paraffin
 - Petrol and Diesel Industry
 - Petrol and Diesel Storage
 - Petrol and Diesel Use
 - Potential Fuel Gas
 - Potential Fuel Oil
 - Potential Fuel Use
 - Potential Petrol and Diesel
 - Potential Tanks
 - Potentially Fuel-related Tanks
 - Underground Fuel Tanks
- Historical Tanks and Energy Facilities**
- Electrical Sub Station Facility
 - Electricity Industry Facility
 - Gas Industry Facility
 - Gas Monitoring Facility
 - Miscellaneous Power Facility
 - Oil Industry Facility
 - Petroleum Storage Facility
 - Potential Tank
 - Tank



Historical Data Report - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Plot Buffer (m): 100

Site Details

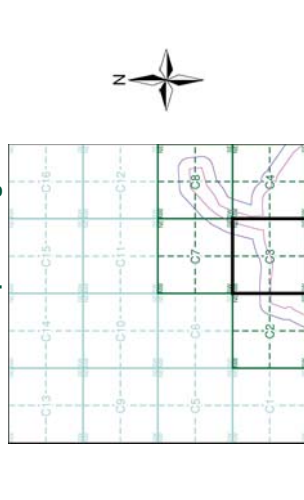
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Historical Building Plans **Historical Tanks and Energy Facilities**

 Area Cleared due to Enemy Action

- | | | | |
|---|------------------------------|---|---------------------------------|
|  | Asbestos |  | Electrical Sub Station Facility |
|  | Above Ground Fuel Tanks |  | Electricity Industry Facility |
|  | Benzene/Benzolite/Naphtaline |  | Gas Industry Facility |
|  | Naphtaline/Akreosene |  | Gas Monitoring Facility |
|  | Electricity Generation |  | Miscellaneous Power Facility |
|  | Electricity Sub-Stations |  | Oil Industry Facility |
|  | Gas Industry |  | Petroleum Storage Facility |
|  | Gas Storage |  | Potential Tank |
|  | Gas Use |  | Tank |
|  | Oil Industry | | |

Historical Data Report - Segment C3



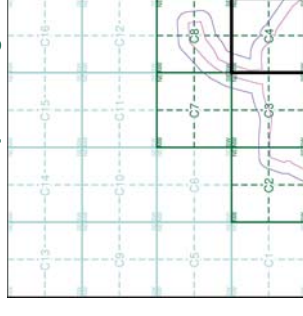
Order Details

Order Number: 8930408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Plot Buffer (m): 100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Historical Data Report - Segment C4

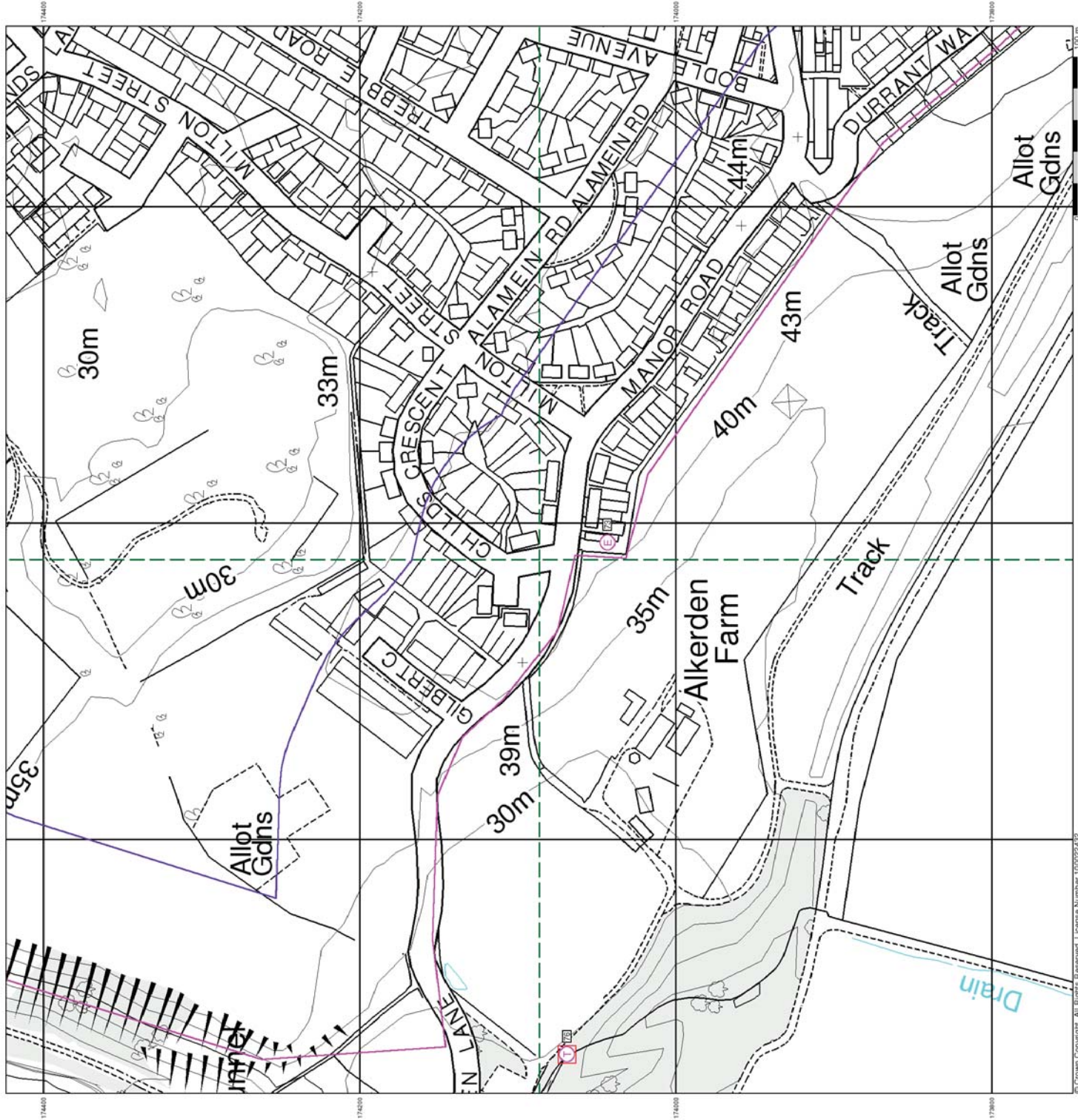


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Plot Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

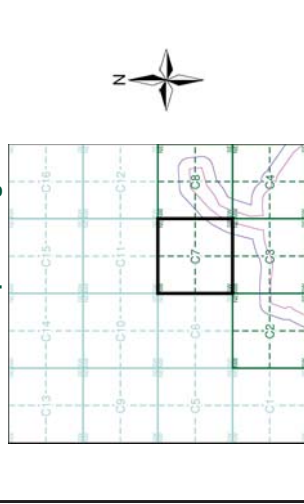


Historical Building Plans **Historical Tanks and Energy Facilities**

 Area Cleared due to Enemy Action

- | | |
|---|-------------------------------------|
| ▲ Asbestos | (B) Electrical Sub Station Facility |
| ▲ Above Ground Fuel Tanks | (E) Electricity Industry Facility |
| ▲ Benzene/Benzol/Naphtaline, Naphtalinol/Kerosene | (G) Gas Industry Facility |
| ▲ Electricity Generation | (J) Gas Monitoring Facility |
| ▲ Electricity Sub-Stations | (M) Miscellaneous Power Facility |
| ▲ Gas Industry | (O) Oil Industry Facility |
| ▲ Gas Storage | (S) Petroleum Storage Facility |
| ▲ Gas Use | Potential Tank |
| ▲ Oil Industry | (T) Tank |

Historical Data Report - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
C
Slice: 272.38
Site Area (Ha): 100
Plot Buffer (m):

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

- Asbestos
- Above Ground Fuel Tanks
- Benzene/Benzonitrile/Naphthalene
- Napthalene/Kerosene
- Electricity Generation
- Electricity Sub-Stations
- Gas Industry
- Gas Storage
- Gas Use
- Oil Industry
- Oil Storage
- Oil Use
- Paint based Oils
- Paraffin
- Petrol and Diesel Industry
- Petrol and Diesel Storage
- Petrol and Diesel Use
- Potential Fuel Gas
- Potential Fuel Oil
- Potential Fuel Use
- Potential Petrol and Diesel
- Potential Tanks
- Potentially Fuel-related Tanks
- Underground Fuel Tanks
- Electrical Sub Station Facility
- Electricity Industry Facility
- Gas Industry Facility
- Gas Monitoring Facility
- Miscellaneous Power Facility
- Oil Industry Facility
- Petroleum Storage Facility
- Potential Tank
- Tank



Historical Data Report - Segment C8



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Plot Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Ordnance Survey Plan 1:10,000

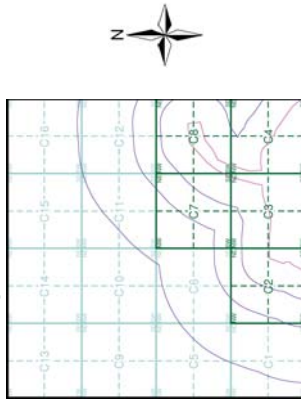
1:10,000 Raster Mapping

Gravel Pit	Rock	Boulders	Shingle	Sand	Slopes	General detail	Overhead detail	Multi-track railway	County boundary (England only)	District, Unitary, Metropolitan, London Borough boundary	Non-confiferous trees (scattered)	Coniferous trees (scattered)	Orchard	Rough Grassland	Scrub	Water feature	Mean high water (springs)	Telephone line (where shown)	Bench mark (where shown)	Point feature (e.g. Guide Post or Mile Stone)	Site of (antiquity)	General Building
Refuse tip or slag heap	Rock (scattered)	Boulders (scattered)	Mud	Sand Pit	Top of cliff	Underground detail	Narrow gauge railway	Single track railway	Civil, parish or community boundary	Constituency boundary	Non-confiferous trees	Coniferous trees	Positioned tree	Coppice or Osiers	Heath	Marsh, Salt Marsh or Reeds	Flow arrows	Mean low water (springs)	Electricity transmission line (with poles)	Triangulation station	Pylon, flare stack or lighting tower	Glasshouse
																						Important Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:10,560	1869	2
Essex	1:10,560	1872 - 1873	3
Kent	1:10,560	1888	4
Essex	1:10,560	1888 - 1889	5
Kent	1:10,560	1910	6
Essex	1:10,560	1923	7
Kent	1:10,560	1932	8
Essex	1:10,560	1938	9
Kent	1:10,560	1938	10
Essex	1:10,560	1938	11
Kent	1:10,560	1950 - 1951	12
Ordnance Survey Plan	1:10,000	1961 - 1962	13
Ordnance Survey Plan	1:10,000	1966 - 1967	14
Ordnance Survey Plan	1:10,000	1973 - 1977	15
Ordnance Survey Plan	1:10,000	1980 - 1987	16
Ordnance Survey Plan	1:10,000	1988	17
Ordnance Survey Plan	1:10,000	1991 - 1993	18
Ordnance Survey Plan	1:10,000	1994 - 1996	19
10K Raster Mapping	1:10,000	1999	20
Street View	1:10,000	2015	21

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

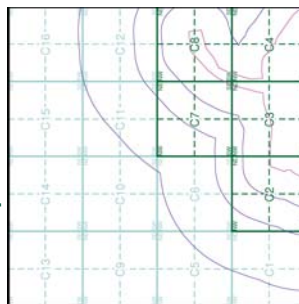
Barton Wilmore, The Observatory, Southfleet Road, SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the state adopted for Mapping Wales and Scotland in the 1940's. In 1864 the 1:250,000 map adopted for mapping urban areas; these maps were produced by the Ordnance Survey in 1855. The 1:50,000 maps were adopted to update the 1:250,000 maps. The first edition of the 1:50,000 map was published in 1893, all OS 1:50,000 maps were based on the Cassini Projection, with independent surveys of a single county in the group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:50,000 mapping from a number of sources. The maps appear unfinished – with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:250,000 map was produced using the Transverse Mercator Projection. The 1:50,000 maps were produced until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

00300	003A00
1869	1869
1:10,560	1:10,560

Historical Map - Slice C



Order Details

Order Details:

Order Number:	89304408_1_1
Customer Ref:	250122/00
National Grid Reference:	559070, 174590
Slice:	C
Site Area (Ha):	272.38
Search Buffer (m):	1000

Site Details

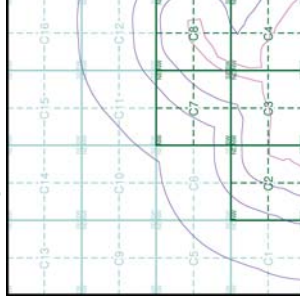
Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the Ordnance Survey began to publish maps of the British Isles, which were used to update the 1:10,560 maps. The published data is often several years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

08300	1873	1:10,560
08800	1872	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Essex

Published 1898

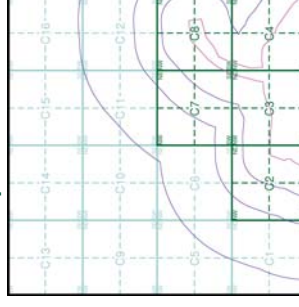
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:10,560 scale maps were first published. The maps are used to update the 1:10,560 maps. The published data is then the same as the original data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

063SW	1898	1:10,560
063SE	1898	1:10,560
063NE	1898	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

Kent

Published 1898 - 1899

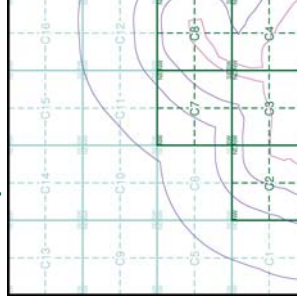
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at 1:25,000 adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:25,000 maps were revised and the 1:10,560 maps were used to update the 1:10,560 maps. The published data then the maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003SE	1898	003ASW	1899
1:10,560	1:10,560	1:10,560	1:10,560
009NE	1899	010NW	1896
1:10,560	1:10,560	1:10,560	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Kent

Published 1910

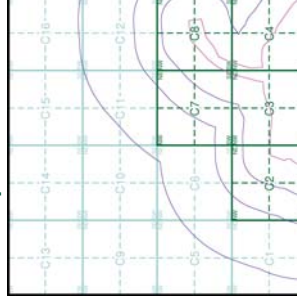
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the Ordnance Survey began publishing maps of the United Kingdom, which were used to update the 1:10,560 maps. The published data, then, the maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003SE	003ASW	1910
1:10,560	1:10,560	1:10,560
009NE	010NW	1910
1:10,560	1:10,560	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Essex

Published 1923

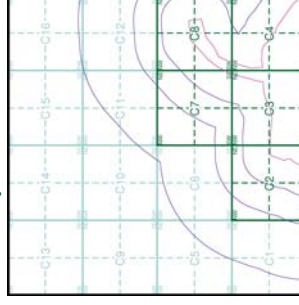
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the 1:10,560 maps were used to update the 1:10,560 maps. The published data is then the same as the original data, but with the 1:10,560 maps. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

005NW	1923	1:10,560
095SW	1923	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

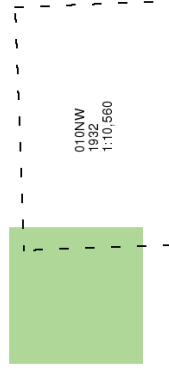


Published 1932

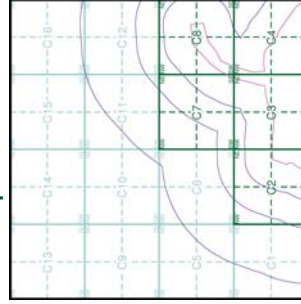
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for Wales and Scotland in the 1840's, i.e. in 1854 the 1:25,000 scale was adopted for mapping urban areas; these maps were used to update the 1:50,000 maps. The first edition of the OS maps was issued to the public later than the 1900's date. Before 1938, all OS maps were based on the Cassini Projection with independent sources of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)
Map 1: [Map Name] Date: [Date] Map 2: [Map Name] Date: [Date] Map 3: [Map Name] Date: [Date]



Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Kent

Published 1938

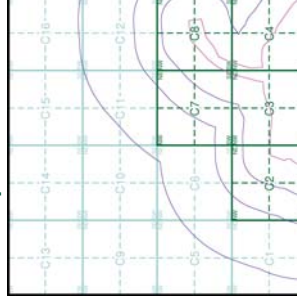
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the Ordnance Survey began publishing maps of the United Kingdom, which were used to update the 1:10,560 maps. The published data were then used to create the 1:10,560 maps. The maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003SE	003ASW
1938	1938
1:10,560	1:10,560
009NE	010NW
1938	1938
1:10,560	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

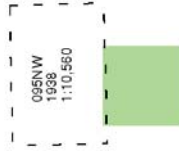
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

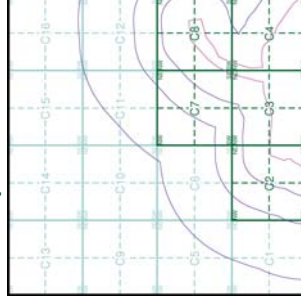


The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey began to publish maps of the country. These maps were used to update the 1:10,560 maps. The published data is then the data of some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

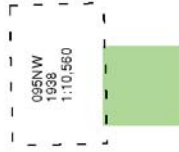
Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

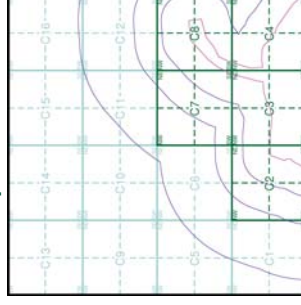
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey began to publish maps of the British Isles. These maps were used to update the 1:10,560 maps. The published data is often more recent than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C

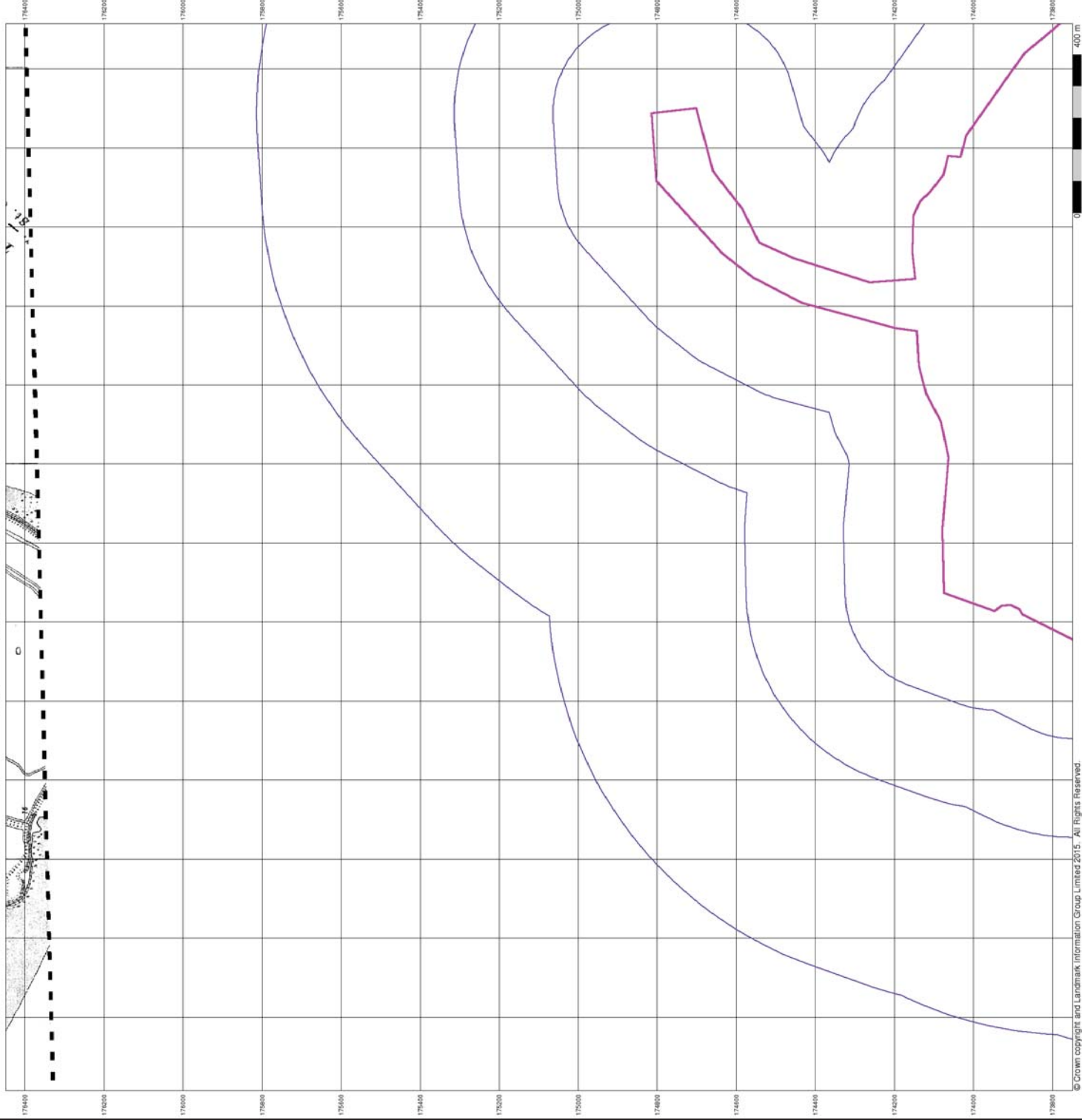


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Kent

Published 1950 - 1951

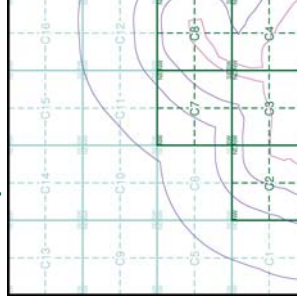
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1854, the Ordnance Survey was established and the first maps were used to update the 1:10,560 maps. The published data then the maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003SE	003ASW
1951	1950
1:10,560	1:10,560
009NE	010NW
1951	1951
1:10,560	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1961 - 1962

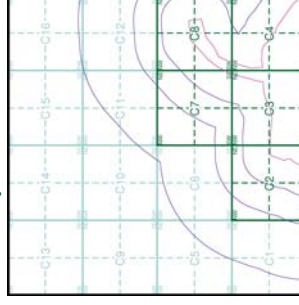
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Wales and Scotland in the 1940's. In 1854 the 1:10,000 scale maps were used to update the 1:10,000 maps. The published data were often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

TO57NE	TO67NW
1961	1961
1:10,000	1:10,000
TO57SE	TO67SW
1961	1962
1:10,000	1:10,000

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1966 - 1967

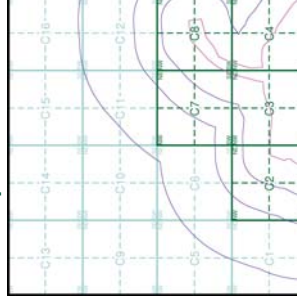
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940's. In 1864, the 1:10,000 scale maps were produced. These maps were used to update the 1:10,000 scale maps. The published data in the maps often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

TO57NE	1966	1:10,560	TO67NW	1966	1:10,560
TO57SE	1967	1:10,560	TO67SW	1966	1:10,560

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1973 - 1977

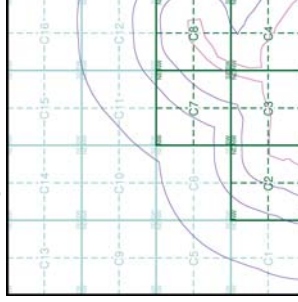
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940's. In 1864 the 1:10,000 scale maps were produced. These maps were used to update the 1:10,000 maps. The published data from these maps often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

TO57NE	TO67NW
1977	1974
1:10,000	1:10,000
TO67SE	TO67SW
1974	1973
1:10,000	1:10,000

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1980 - 1987

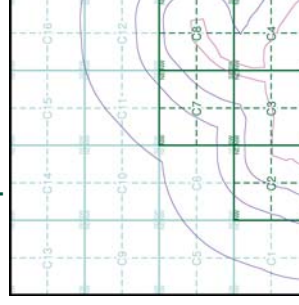
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1954, the Ordnance Survey adopted the Transverse Mercator Projection. The maps were used to update the 1:10,000 maps. The published data from the maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

TS57NE	TS67NW
1987	1984
1:10,000	1:10,000
TS67SE	TS67SW
1984	1980
1:10,000	1:10,000

Historical Map - Slice C



Order Details

Order Number: 893040408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590

Site Details

Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

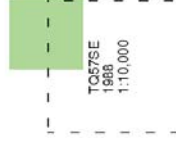


Ordnance Survey Plan Published 1988

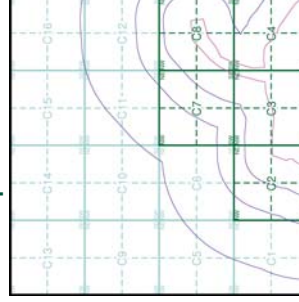
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:10,000 scale maps were published. These maps were used to update the 1:10,000 maps. The published data is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Ordnance Survey Plan

Published 1991 - 1993

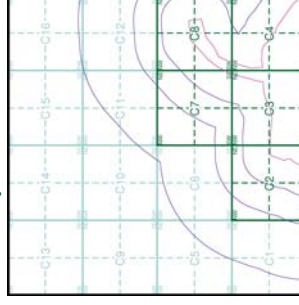
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1954, the Ordnance Survey adopted the Transverse Mercator Projection. The maps were used to update the 1:10,000 maps. The published data from the maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

TS57NE	TS67NW
1993	1993
1:10,000	1:10,000
TS57SE	TS67SW
1992	1991
1:10,000	1:10,000

Historical Map - Slice C

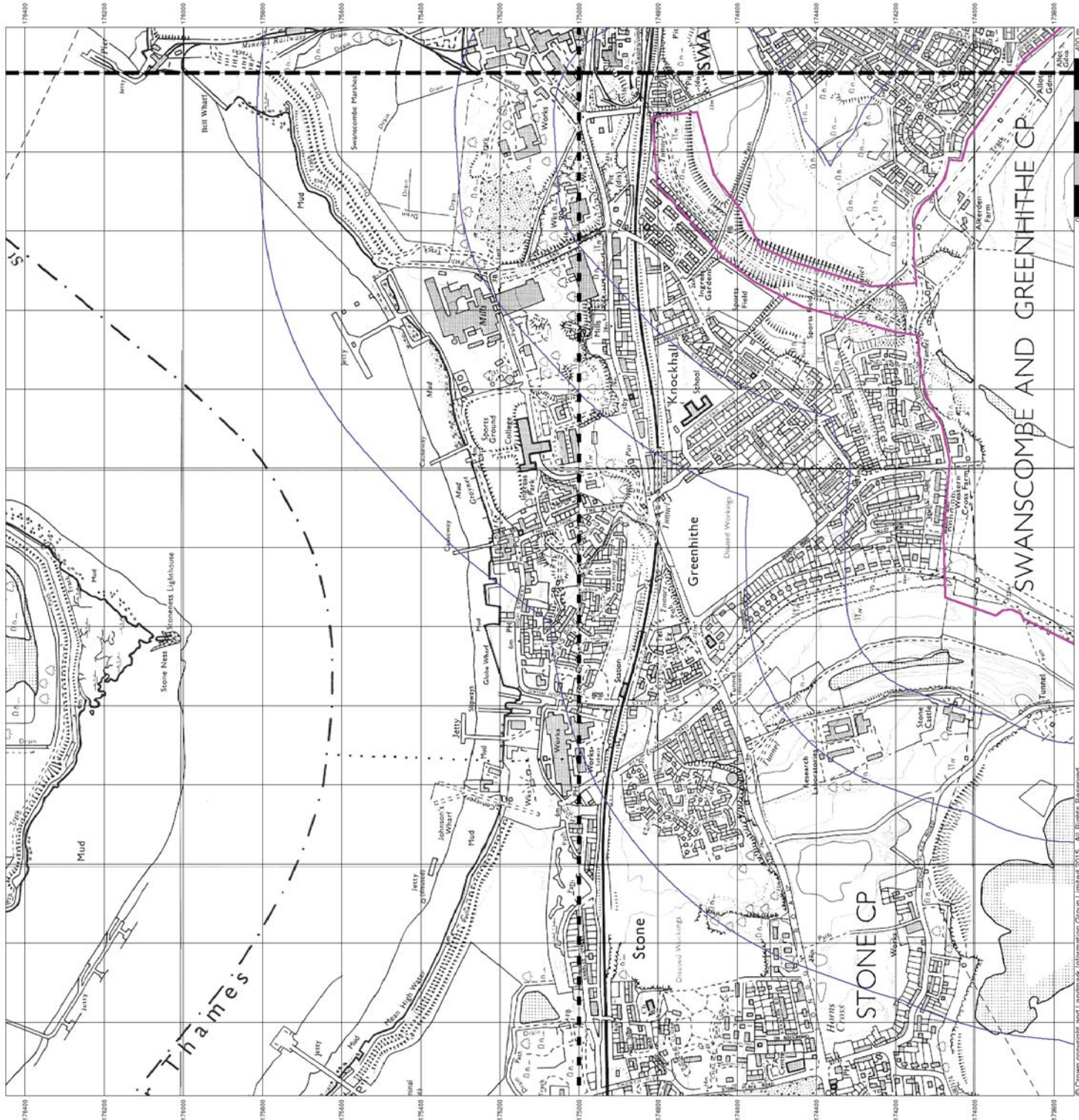


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan Published 1994 - 1996

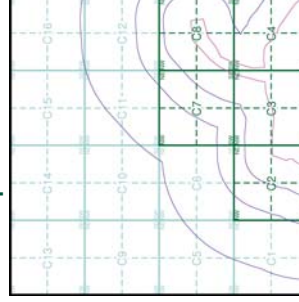
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1864 the 1:2500 maps were produced and the 1:10,000 maps were used to update the 1:10,000 maps. The published data from the maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

TO57NE	TO57NW
1998	1994
1:10,000	1:10,000

Historical Map - Slice C

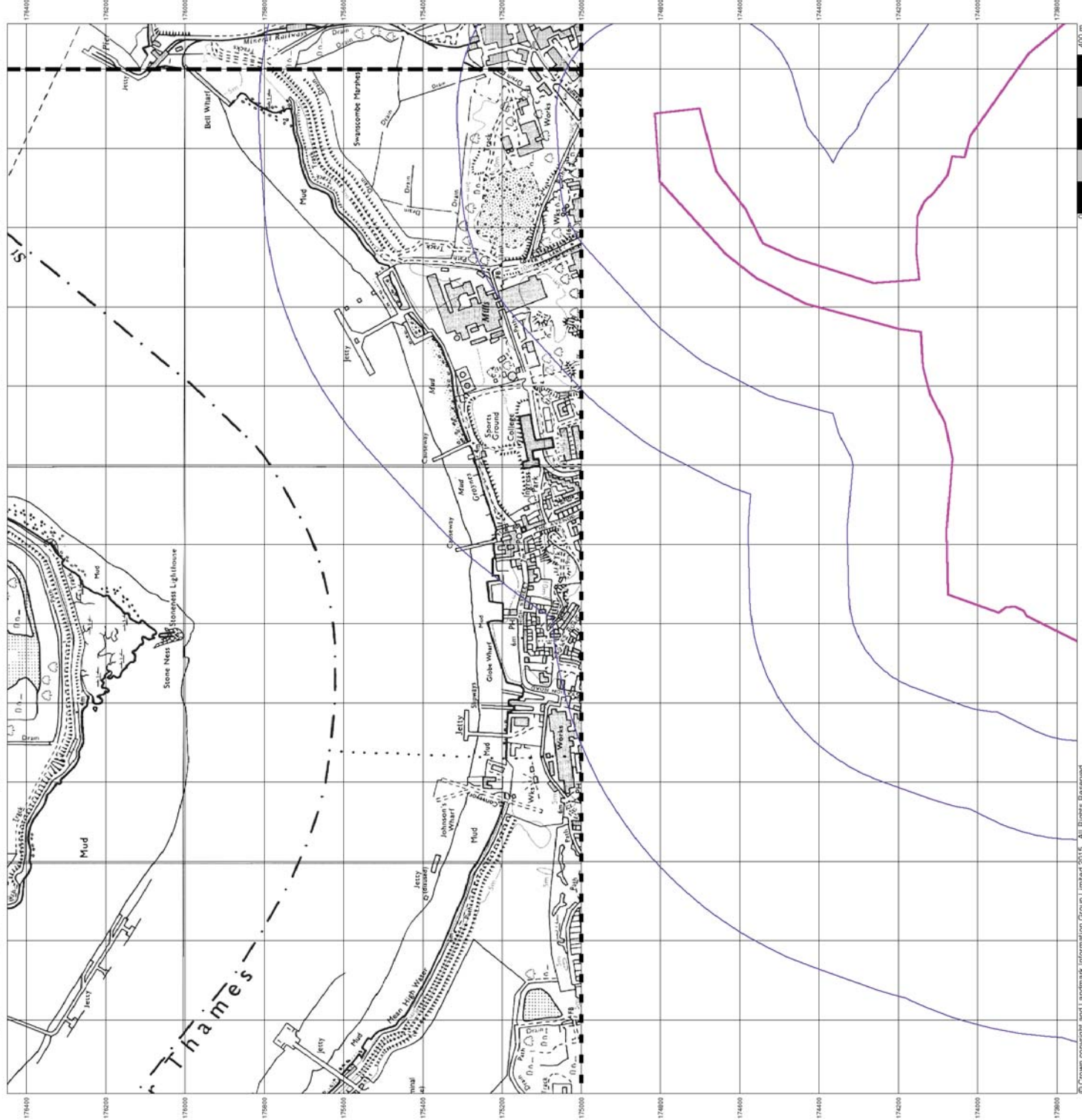


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



10k Raster Mapping

Published 1999

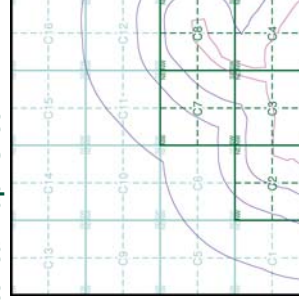
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster maps. These maps are updated from the 1970s data which had a scale of 1:10,000. The maps are highly detailed and show buildings, roads, and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information (decision includes county, unitary authority, district, civil parish and constituency,

Map Name(s) and Date(s)

TO57NE	TO67NW
1999	1999
1:10,000	1:10,000
TO67SE	TO67SW
1999	1999
1:10,000	1:10,000

Historical Map - Slice C



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Street View

Published 2015

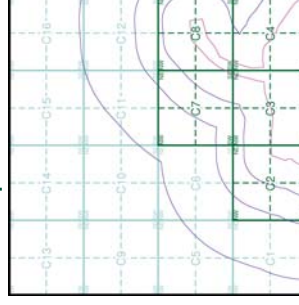
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

TS057NE	TS067NW
2015	2015
1:10,000	1:10,000
TS057SE	TS067SW
2015	2015
1:10,000	1:10,000

Street View Map - Slice C



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

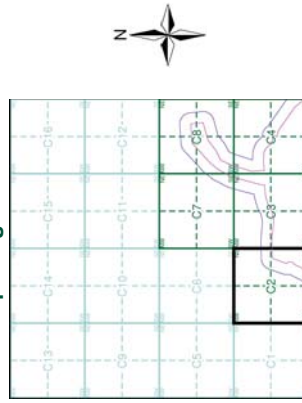
Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1880	2
Kent	1:2,500	1897	3
Kent	1:2,500	1909	4
Kent	1:2,500	1938	5
Ordinance Survey Plan	1:1,250	1953	6
Ordinance Survey Plan	1:1,250	1953 - 1963	7
Ordinance Survey Plan	1:1,250	1958 - 1973	8
Ordinance Survey Plan	1:1,250	1963	9
Additional SIMs	1:1,250	1963 - 1978	10
Additional SIMs	1:2,500	1963	11
Additional SIMs	1:1,250	1978	12
Additional SIMs	1:2,500	1978	13
Additional SIMs	1:2,500	1986	14
Large-Scale National Grid Data	1:2,500	1992	15
Large-Scale National Grid Data	1:1,250	1992	16
Large-Scale National Grid Data	1:2,500	1993	17
Large-Scale National Grid Data	1:1,250	1996	18

Historical Map - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00_
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Historical Mapping Legends

Large-Scale National Grid Data 1:2,500 and 1:1,250

Slopes		Top	
	Cliff		Rock
	Boulders		Positioned Boulder
	Non-Coniferous Tree (surveyed)		Non-Coniferous Trees (not surveyed)
	Orchard Tree		Coppice, Osier
	Rough Grassland		Direction of water flow
	Electricity Transmission Line		Electricity Pole
	Bench Mark		Roofed Building
	Civil parish/community boundary		District boundary
	County boundary		Boundary post/stone
	Boundary merling symbol (note: these always appear in opposed pairs or groups of three)		Glazed Roof Building
	Barracks		Electricity Pole, Pillar
	Battery		Electricity Sub Station
	Cemety		Fountain / Drinking Ftn.
	Chimney		Gas Valve Compound
	Cistern		Gas Governor
	Disartd Rly		Guids Post
	El Gen Sta		Manhole
	El P		Electricity Pole, Pillar
	El Sub Sta		Electricity Sub Station
	FB		Fountain / Drinking Ftn.
	Fn / D Fn		Gas Valve Compound
	Gas Gov		Gas Governor
	GVC		Guids Post
	GP		Manhole
	MH		Electricity Pole, Pillar
	Pillar, Pole or Post		Post Office
	Public Convenience		Pump
	Pumping Station		Place of Worship
	Sewage Pumping Station		Signal Box or Bridge
	Signal Post or Light		Spring
	Tank or Track		Trough
	Wind Pump		Water Point, Water Tap
	Works (building or area)		Works (building or area)

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information
1:2,500 and 1:1,250

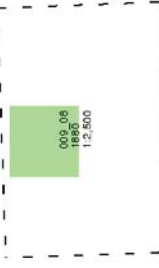
Topographic Features		Man-made Structures		Vegetation		Water Features		Infrastructure		Boundaries		Other	
	Inactive Quarry, Chalk Pit or Clay Pit		Rock		Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)		Orchard Tree		Cave Entrance		County Boundary (Geographical)
	Active Quarry, Chalk Pit or Clay Pit		Boulders		Roofed Building		Glazed Roof Building		Copple, Osler		Triangulation Station		Civil Parish Boundary
	Slopes		Cliff		Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)		Rough Grassland		Electricity Pylon		Admin. County or County Bor. Boundary
	Archway		Sloping Masonry		Orchard		Bracken		Direction of water flow		Electricity Transmission Line		London Borough Boundary
	Marsh, Saltings		Culvert		Antiquity (site of)		Signal Post or Light		Tank or Truck		Telephone Call Post		Pillar, Pole or Post
	Public Convenience		Public House		Pump		SP, S Br		Signal Post or Light		Trough		Water Point
	Wind Pump		Well		Water Tap		Wind Pump		Water Tap		Wind Pump		Water Tap

**Ordinance Survey County Series and
Ordinance Survey Plan 1:2,500**

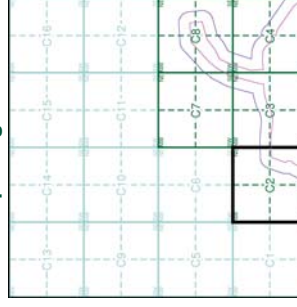
		
		
		
		
		
		
		
		
		
		
		
		
		
		
--- County Boundary (Geographical) - - - County & Civil Parish Boundary - . - Administrative County & Civil Parish Boundary - . . County Borough Boundary (England) - . . County Borough Boundary (Scotland)		
		
		
		
		
		

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. 1884 the 1:2,500 scale maps were reproduced from the original maps by 1886. It covered the whole of what was considered to be the unincorporated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C2

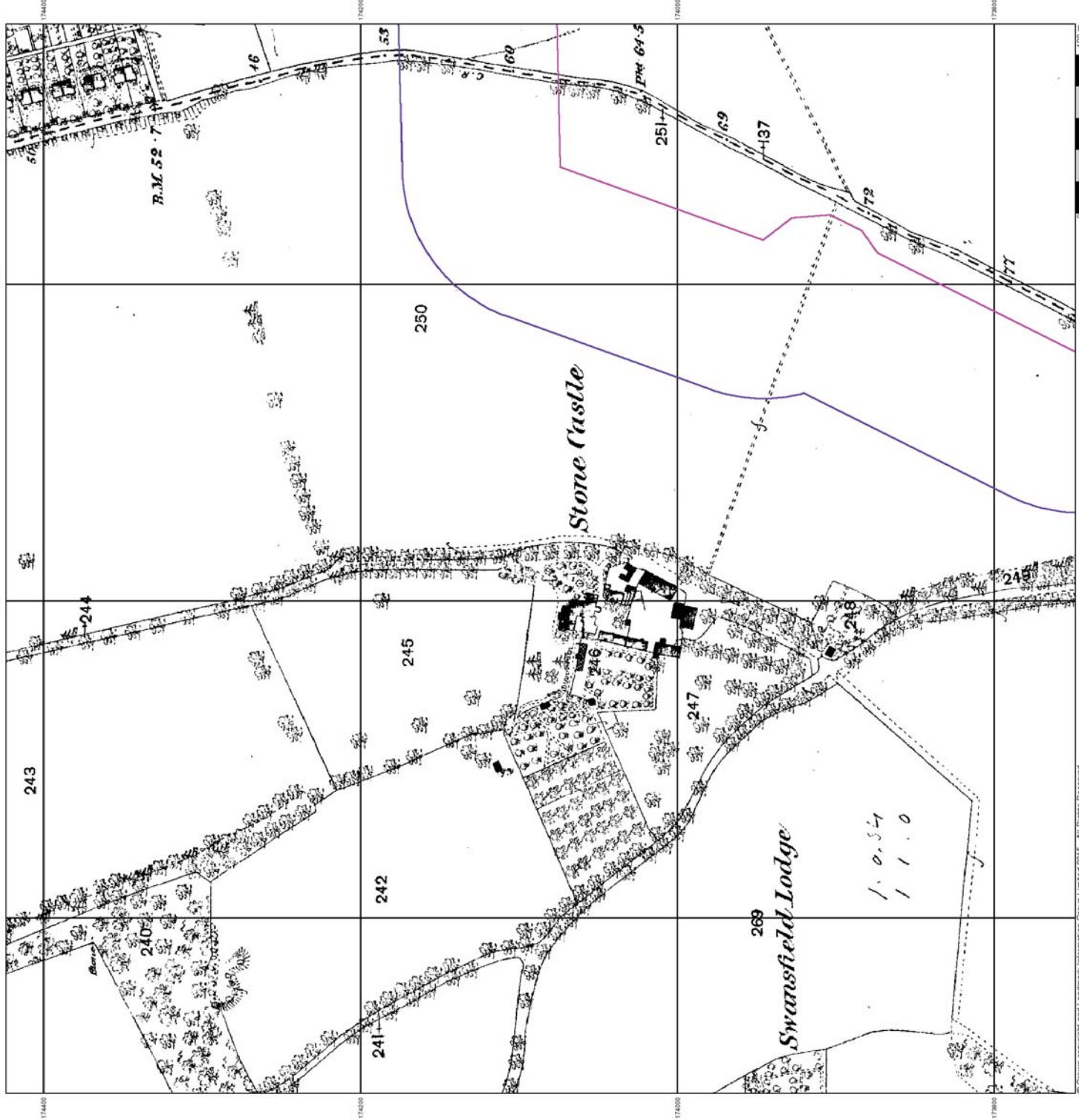


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

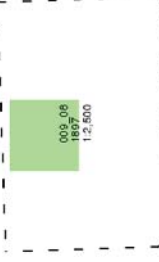
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

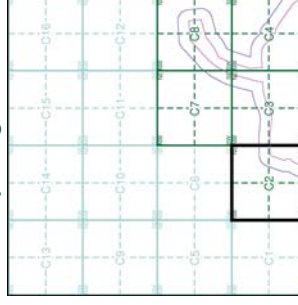


The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. 1854 the 1:2,500 scale maps were produced and published by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C2

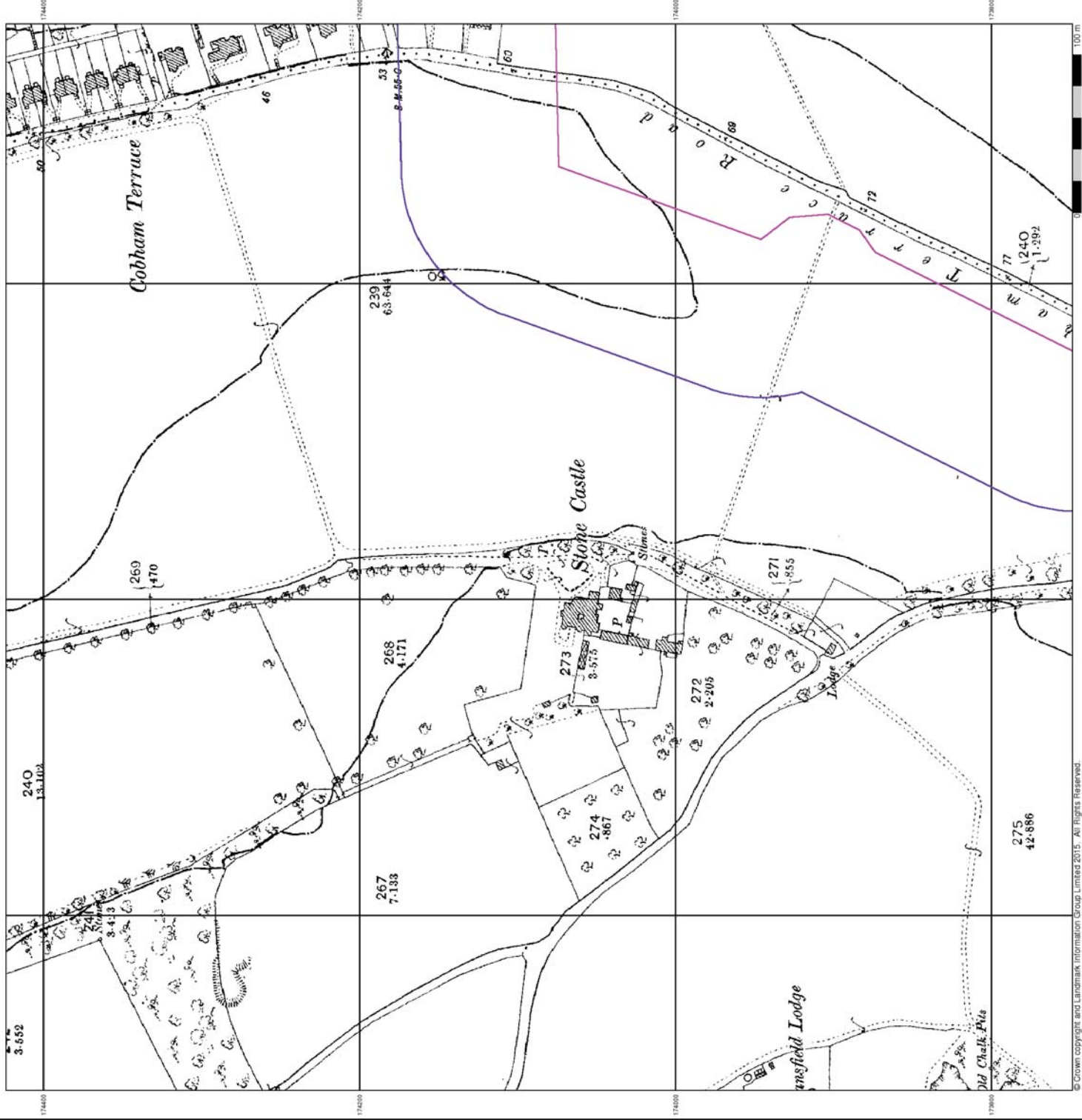


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

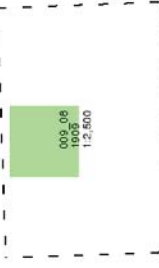
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

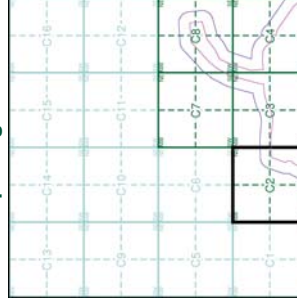


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the first 1:2,500 scale map was published, and the first 1:10,000 scale map was published in 1886. It is important to note that the published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C2

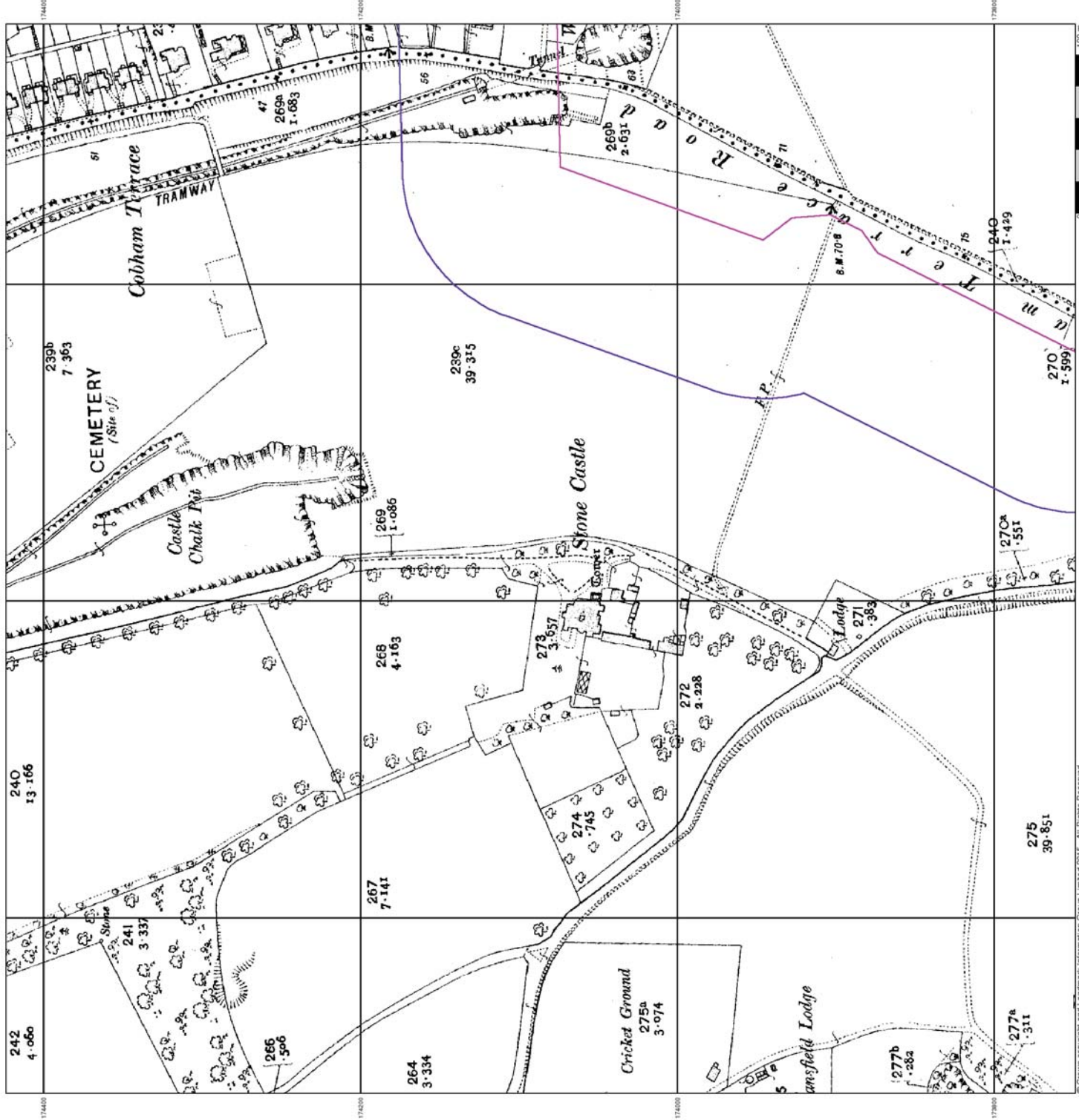


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

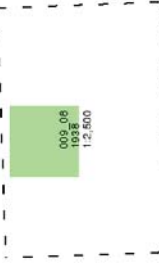
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

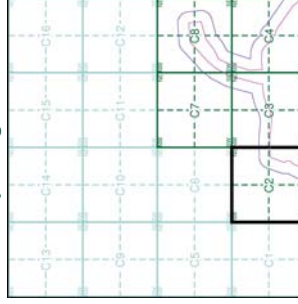


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. It is noted that the 1:2,500 scale maps were produced by the Ordnance Survey in 1864, and the 1:10,000 scale maps were produced by the Ordnance Survey in 1886. It is noted that the whole of what was covered by the published parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C2

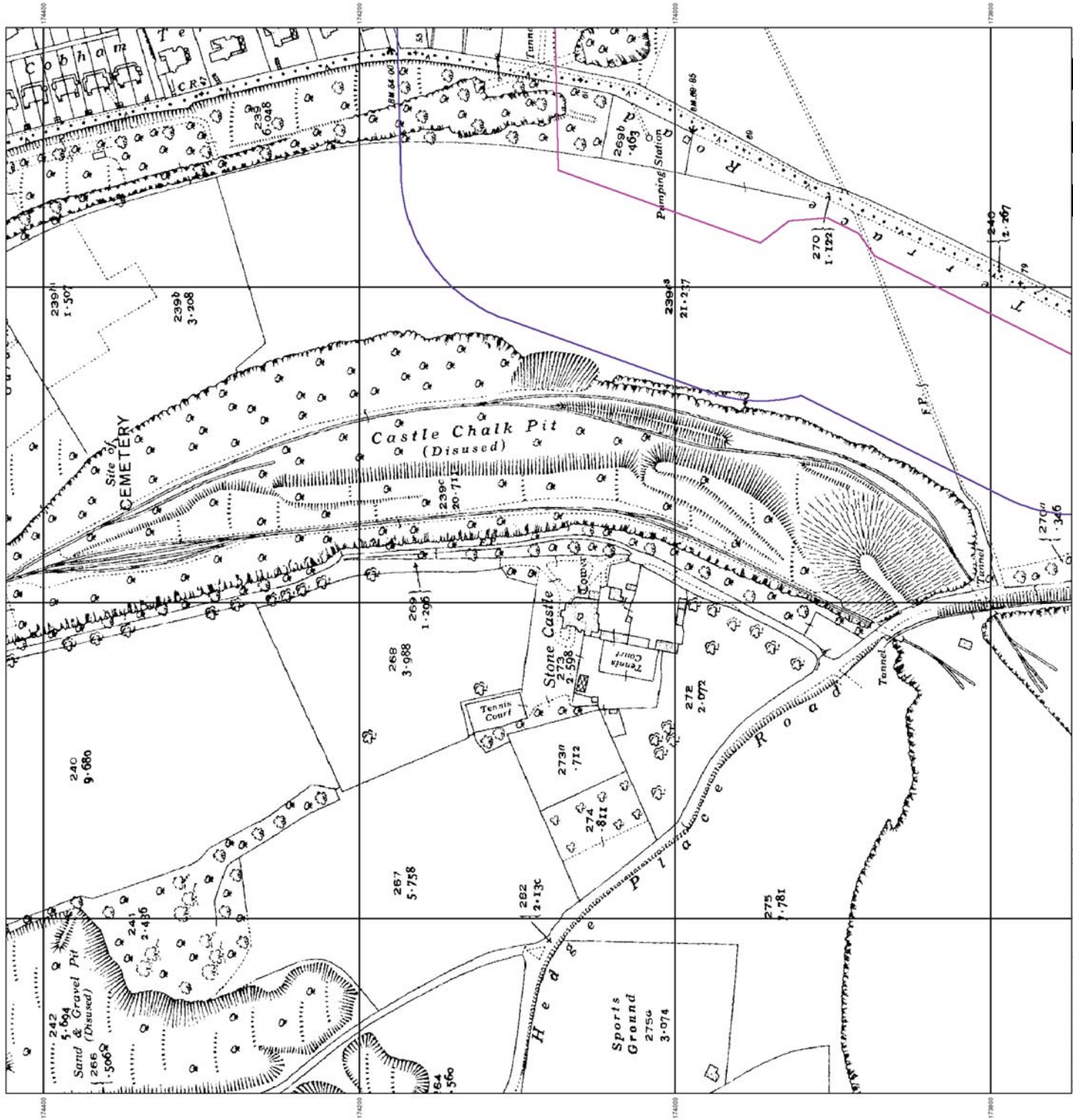


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



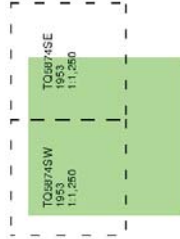
Ordinance Survey Map

Published 1953

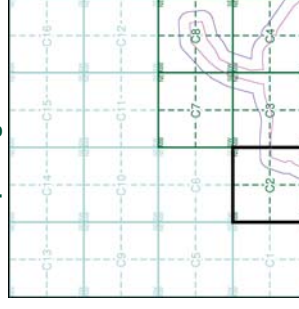
Source map scale - 1:1,250

The historical maps shown are reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840s. In 1854, the 1:2,500 scale maps were replaced by 1:1,250 scale maps. The maps were prepared by the Ordnance Survey, which was responsible for the whole of what is now the United Kingdom. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Ordnance Survey Plan

Published 1953 - 1963

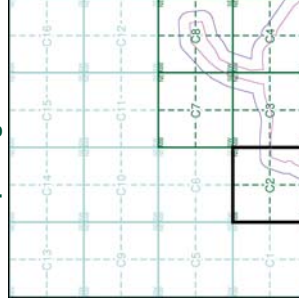
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840s. It is 1854 the 1:2,500 scale maps were produced and adapted by 1896 it covered the whole of what was considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TC5874	1953
1:2,500	
TC5873	1953
1:2,500	

Historical Map - Segment C2

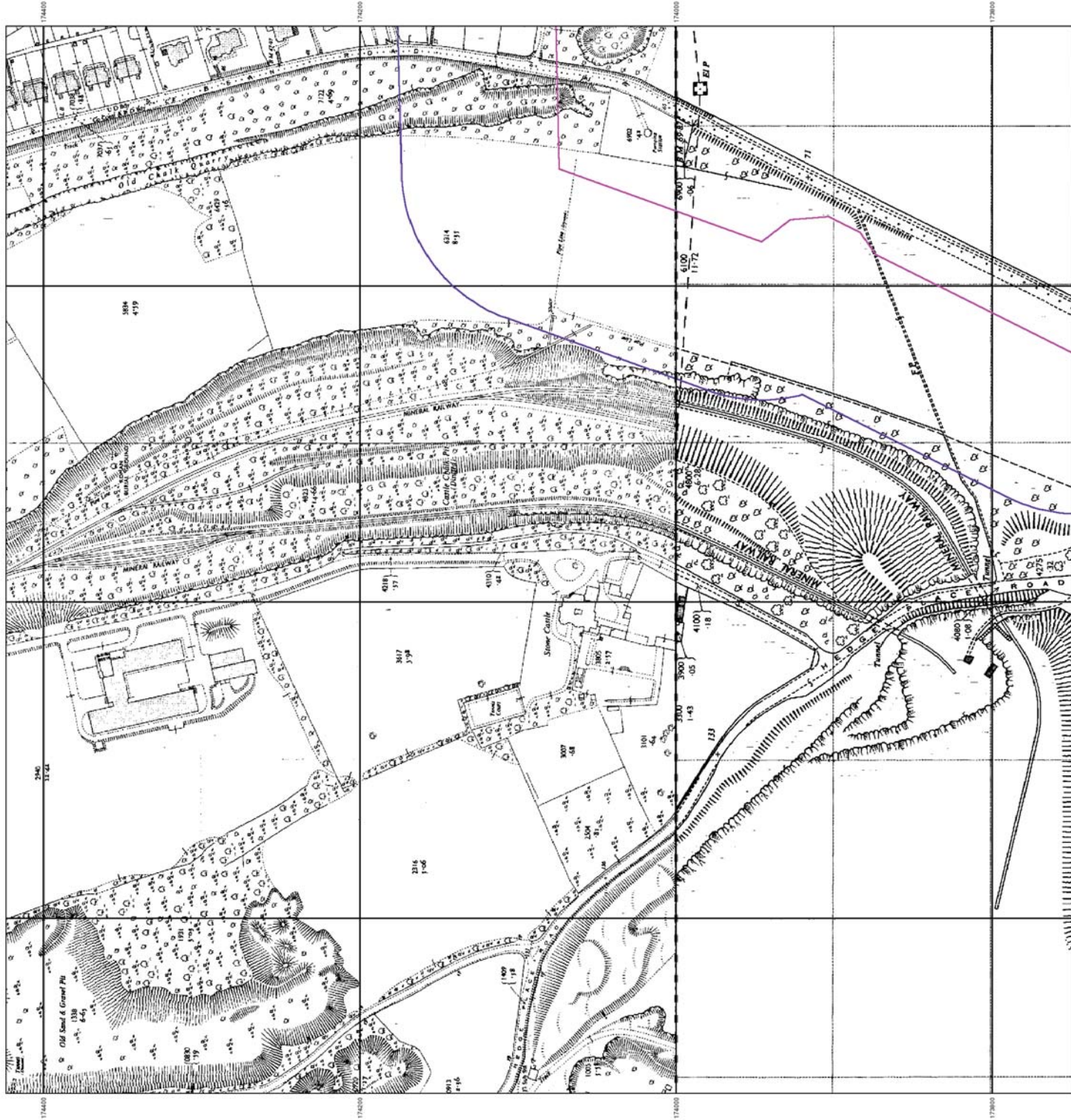


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1958 - 1973

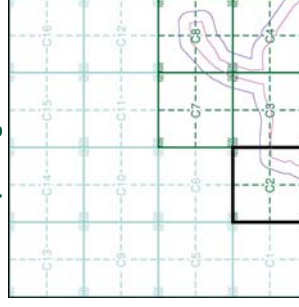
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s and 1950s. The maps were then reissued at a 1:1,250 scale by 1958. It is important to note that the whole of what was covered by the original parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO5874SW	TO5874SE
1973	1958
1:1,250	1:1,250

Historical Map - Segment C2

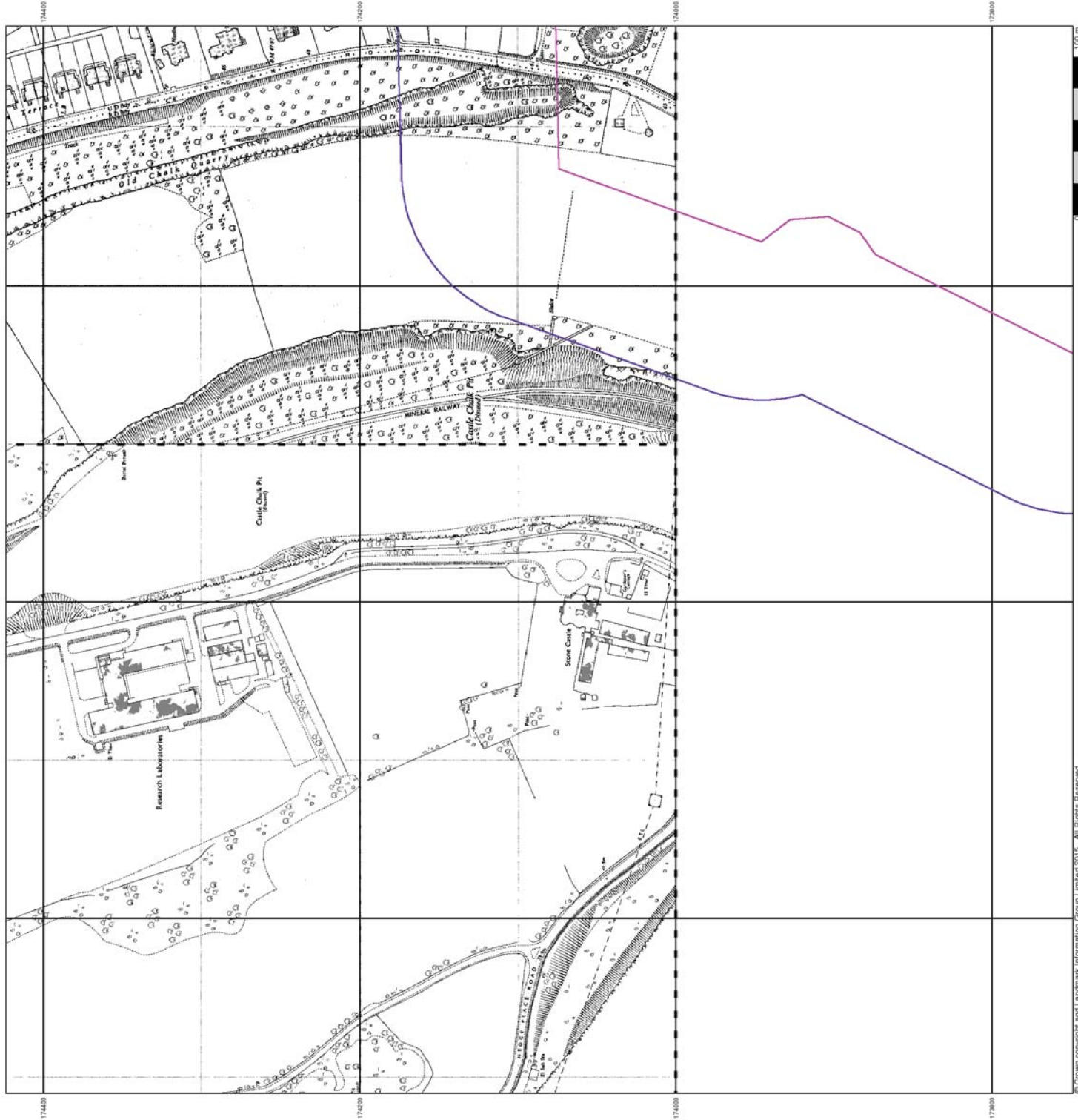


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

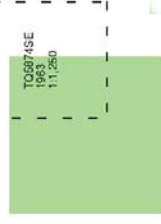


Ordnance Survey Plan Published 1963

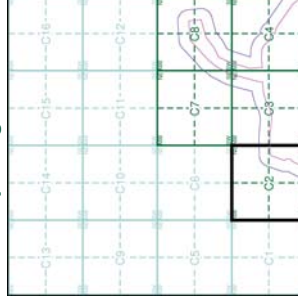
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were first published in 1863, and the 1:1,250 scale maps were first published in 1963. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C2

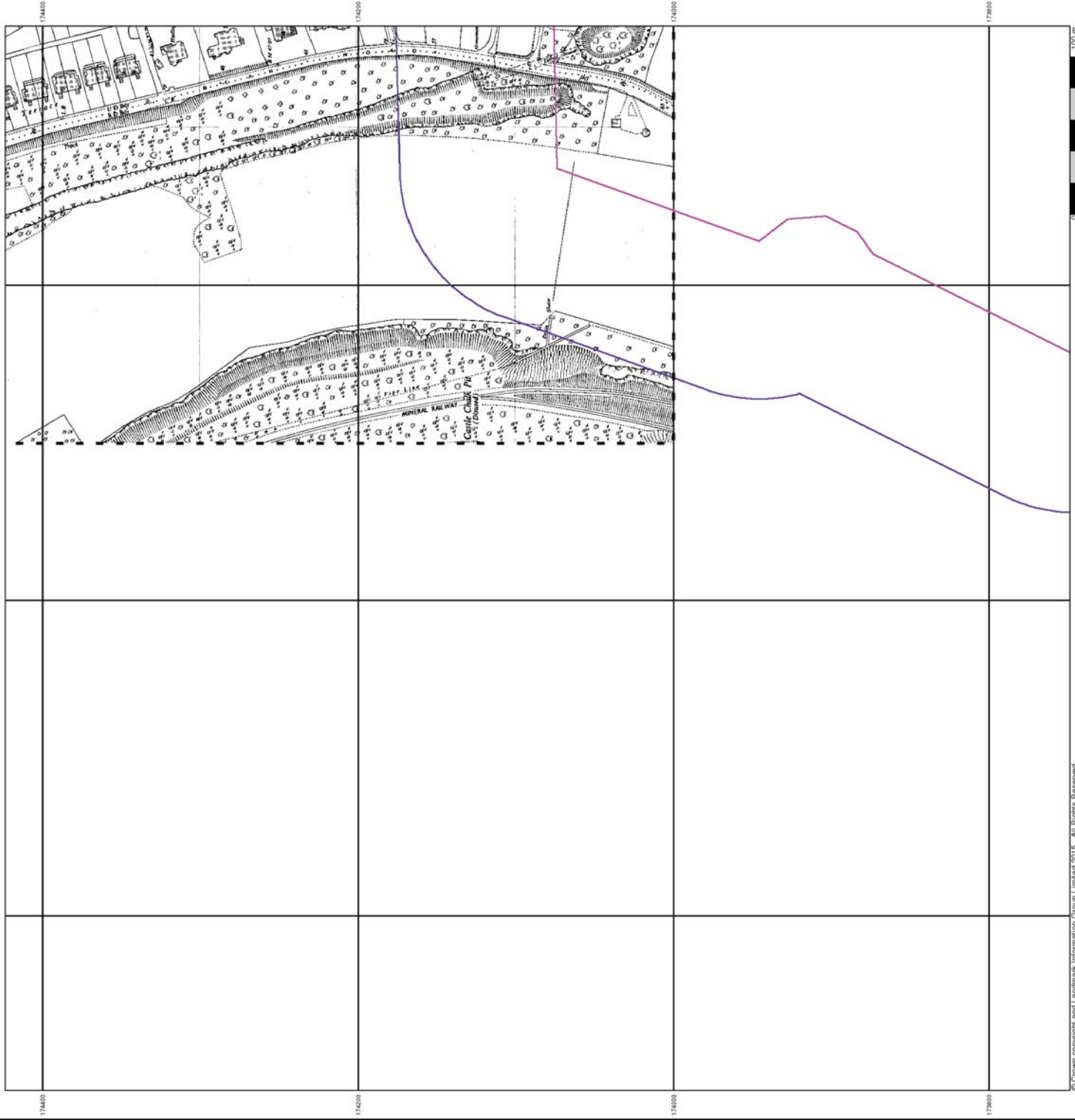


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Additional SIMs

Published 1963 - 1978

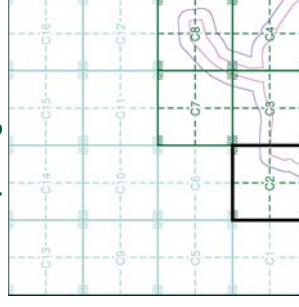
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published from 1947 to 1978. The cards contain information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TO5874SW	TO5874SE
1978	1963
1:1,250	1:1,250

Historical Map - Segment C2



Order Details

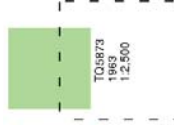
Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

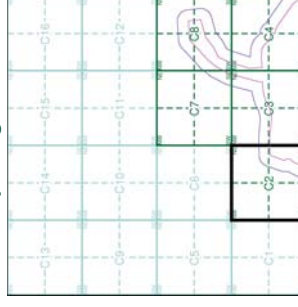
Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

Order Details

Order Number:	89304408_1_1
Customer Ref:	250122/00
National Grid Reference:	559070, 174590
Slice:	C
Site Area (Ha):	272.38
Search Buffer (m):	100

Site Details

Site Details
Barton Willmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

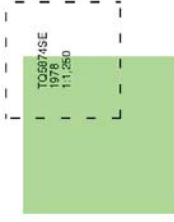
Additional SIMs

Published 1978

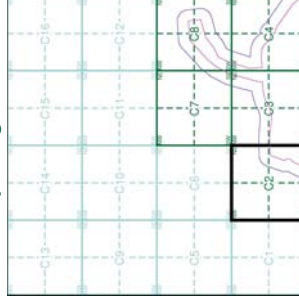
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published in 1978 before the current edition of the main OS map was produced for 1977 to 1984 and contain details of buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

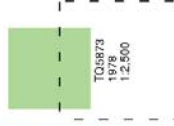
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

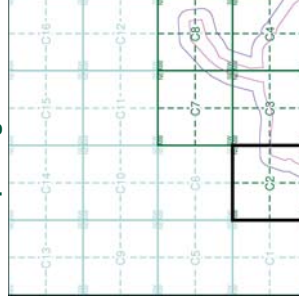
Additional SIMs **Published 1978** **Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further editions of mapping which were produced and published in 1978, before the introduction of the Ordnance Survey's 'Survey of Information on Microfilm' in 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

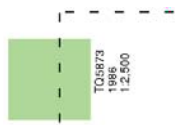
Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

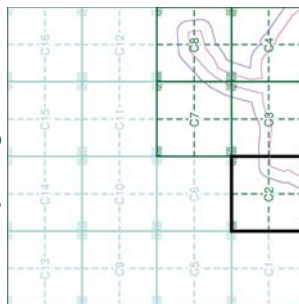
Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
C
Slice:
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



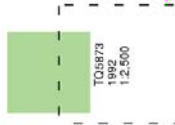
Large-Scale National Grid Data

Published 1992

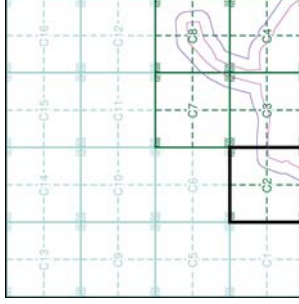
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were produced by digitising original mapping and provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

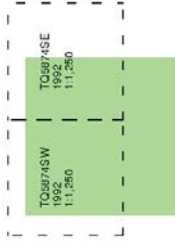
Large-Scale National Grid Data

Published 1992

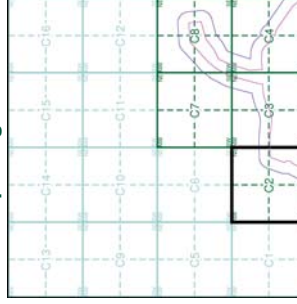
Source map scale - 1:1,250

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of the Great Britain) in 1992, and continued to be produced until 1999. These maps are produced by digitising the original maps and provide detailed information on houses and other built features, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Large-Scale National Grid Data

Published 1993

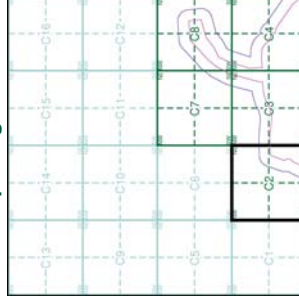
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source of Information on Microform') in 1992, and continued to be produced until 1999. These maps were originally produced for the purpose of providing detailed information on the location and extent of land parcels, but also provide topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:12,500 scales.

Map Name(s) and Date(s)

TC05873
1993
1:2,500

Historical Map - Segment C2

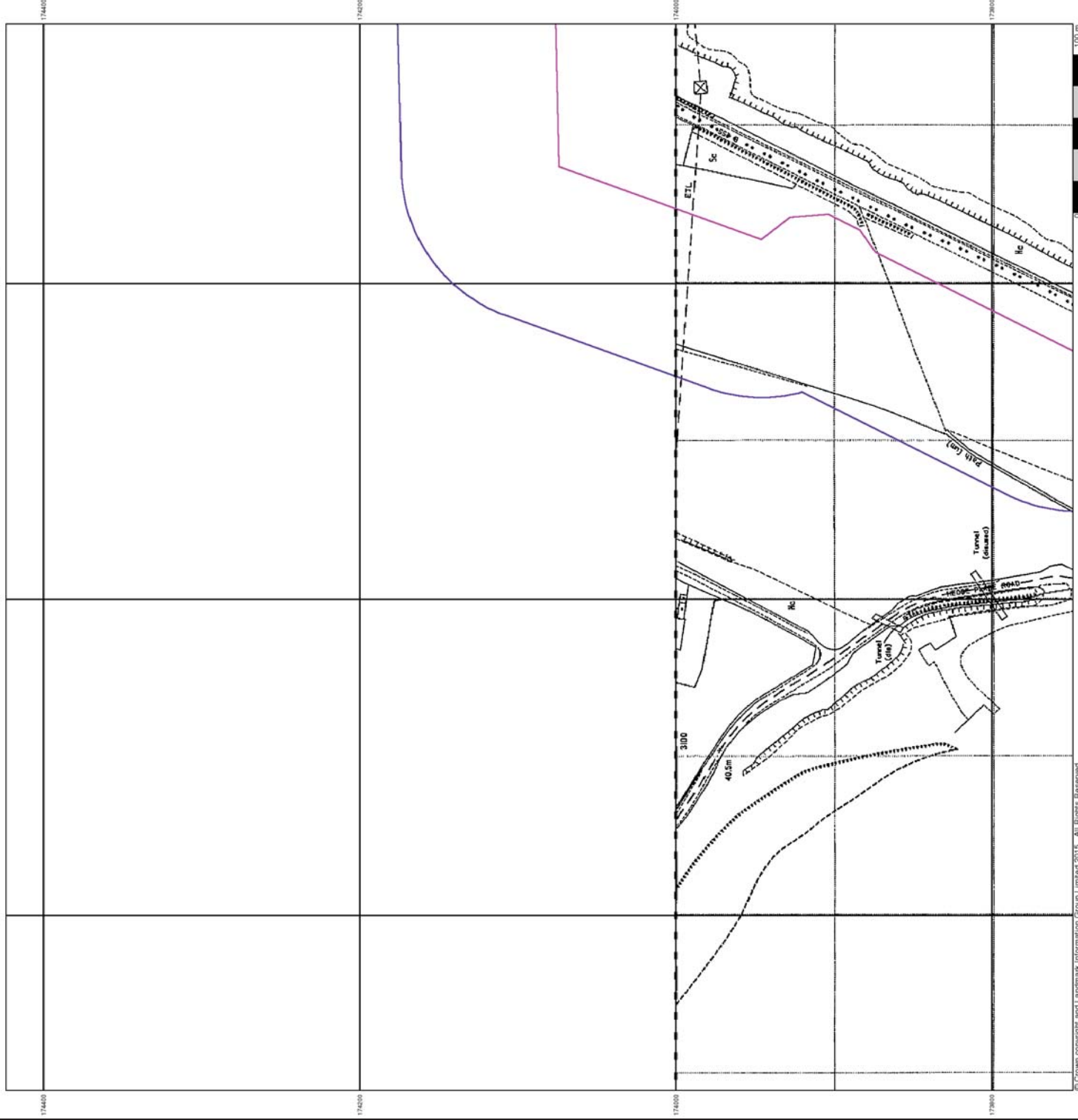


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



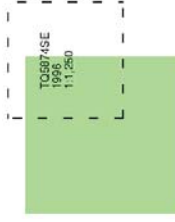


Large-Scale National Grid Data Published 1996

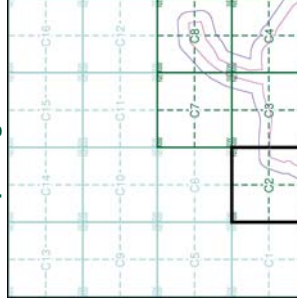
Source map scale - 1:1,250

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source Information on Microfilm') in 1992, and continued to be produced until 1999. These maps are the original mapping at 1:1,250 scale, and provide detailed information on the layout of roads and other features, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500

Quarry

Gravel Pit

Sand Pit

Clay Pit

Refuse Heap

Shingle

Sloping Masonry

Flat Rock

Marsh

Reeds

Furze

Wood

Mixed Wood

Ferry

Fir

Ford

Waterfall

Lock

Trig. Station

B.M. 325.9

Bench Mark

Arrow flow of water

Antiquities (site of)

Cutting

Embankment

Road crossing Railway

Level Crossing

Road over single stream

River or Canal

Railway crossing Road

Railway crossing River or Canal

County Boundary (Geographical)

County & Civil Parish Boundary

Administrative County & Civil Parish Boundary

County Borough Boundary (England)

County Borough Boundary (Scotland)

Boundary Post or Stone

B.R.

Bridle Road

Electricity Pylon

Foot Bridge

Foot Path

Guide Post or Board

Mile Stone

M.P. M.R.

Mooring Post or Ring

Police Call Box

Pump

Signal Post

Sluice

Spring

Telephone Call Box

Trough

Well

Inactive Quarry, Chalk Pit or Clay Pit

Active Quarry, Chalk Pit or Clay Pit

Rock

Boulders

Slopes

Roofed Building

Archway

Non-Confiferous Tree (surveyed)

Non-Confiferous Trees (not surveyed)

Orchard

Tree

Coppice, Osier

Reeds

Heath

Bench Mark

Triangulation Station

Electricity Pylon

Cave Entrance

Electricity Transmission Line

County Boundary (Geographical)

County & Civil Parish Boundary

Admin. County or County Bor. Boundary

London Borough Boundary

Symbol marking point where boundary mereing changes

Beer House

Boundary Post or Stone

Capstan, Crane

Chimney

Drinking Fountain

Fire Alarm Pillar

Foot Bridge

Guide Post

Hydrant or Hydraulic

Level Crossing

Manhole

Mile Post or Mooring Post

Mile Stone

Normal Tidal Limit

Pillar, Pole or Post

Post Office

Public Convenience

Public House

Signal Box or Bridge

Spring

Tank or Track

Telephone Call Box

Telephone Call Post

Trough

Water Point, Water Tap

Well

Wind Pump

Large-Scale National Grid Data 1:2,500 and
1:1,250

Cliff

Slopes

Rock

Boulders

Positioned Boulder

Non-Confiferous Tree (surveyed)

Non-Confiferous Trees (not surveyed)

Orchard

Tree

Coppice, Osier

Reeds

Heath

Triangulation Station

Direction of water flow

Electricity Transmission Line

Electricity Pylon

Bench Mark

Roofed Building

Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Barracks

Battery

Cemety

Chimney

Cistern

Disamtd Rly

Electricity Generating Station

El Sub Sta

Electricity Pole, Pillar

Electricity Sub Station

Filter Bed

Fountain/Drinking Ftn.

Gas Gov

Gas Compound

GVC

Guide Post

Manhole

MH

MP MS

Mile Post or Mile Stone

Pillar, Pole or Post

Post Office

Public Convenience

Pump

Ppg Sta

Place of Worship

Sewage Ppg Sta

Sewage Pumping Station

SB, S Br

Signal Box or Bridge

Signal Post or Light

Spring

Tank or Track

Trough

Wind Pump

Wp Pt, Wrt

Water Point, Water Tap

Wks

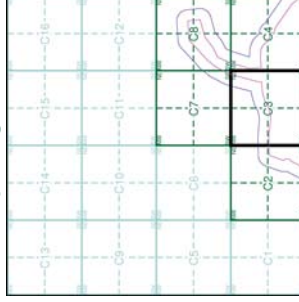
Works (building or area)

Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1880	2
Kent	1:2,500	1897	3
Kent	1:2,500	1909	4
Kent	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1953 - 1963	6
Ordnance Survey Plan	1:1,250	1953	7
Ordnance Survey Plan	1:1,250	1958 - 1969	8
Ordnance Survey Plan	1:1,250	1963	9
Additional SIMs	1:1,250	1963 - 1978	10
Additional SIMs	1:2,500	1963	11
Ordnance Survey Plan	1:2,500	1978	12
Additional SIMs	1:2,500	1978	13
Additional SIMs	1:1,250	1978 - 1989	14
Additional SIMs	1:2,500	1986	15
Additional SIMs	1:1,250	1990	16
Large-Scale National Grid Data	1:1,250	1992	17
Large-Scale National Grid Data	1:2,500	1992	18
Large-Scale National Grid Data	1:2,500	1993	19
Large-Scale National Grid Data	1:1,250	1996	20

Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
C
Site Area (Ha): 272.38
Search Buffer (m): 100

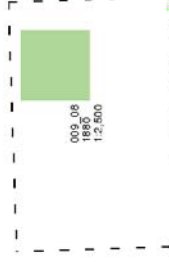
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

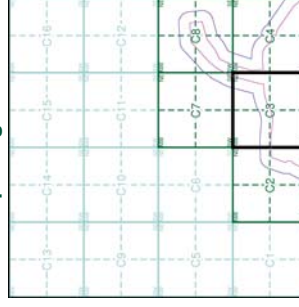


Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Map Name(s) and Date(s)



Historical Map - Segment C3

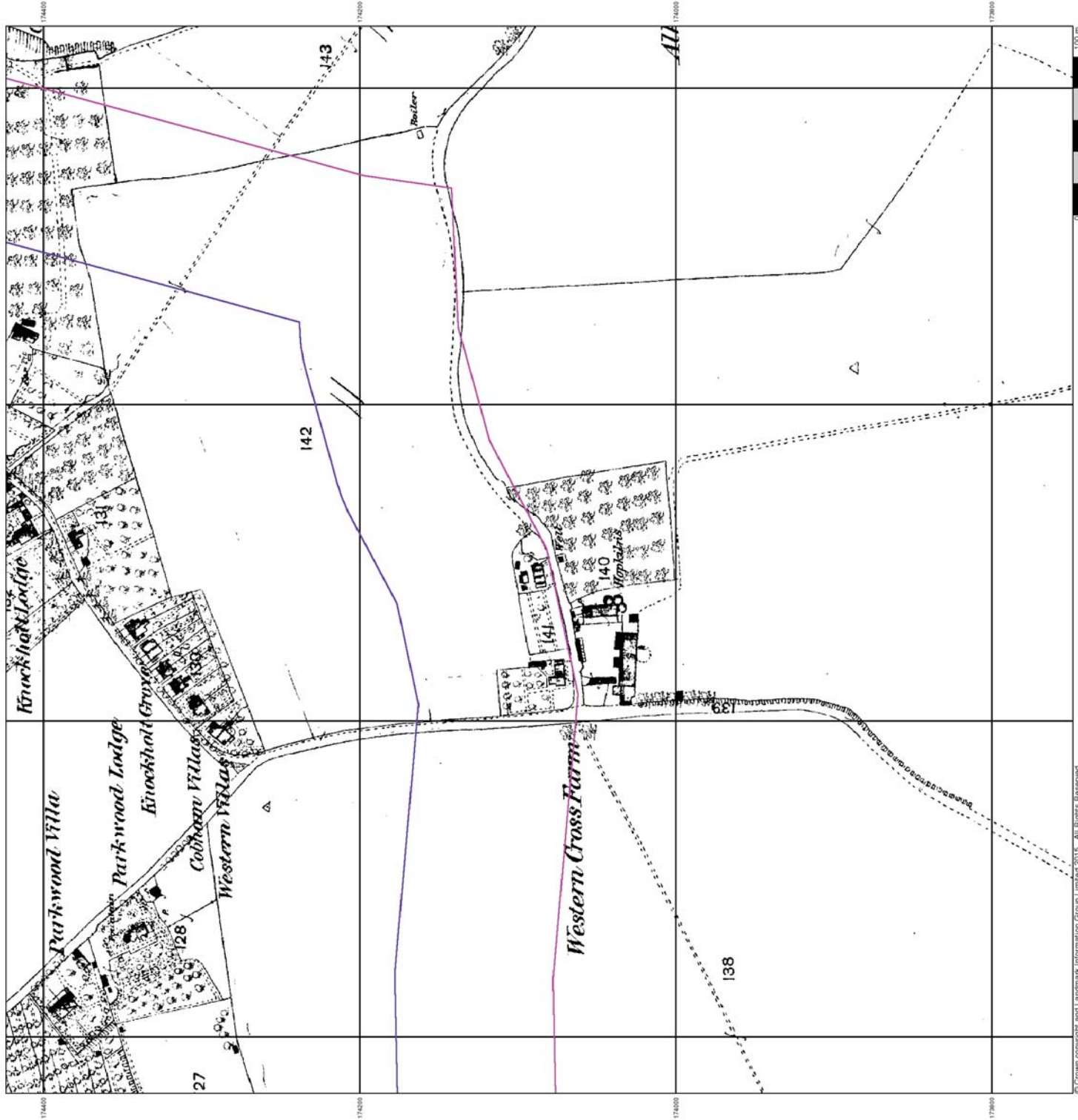


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

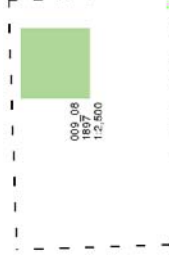
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

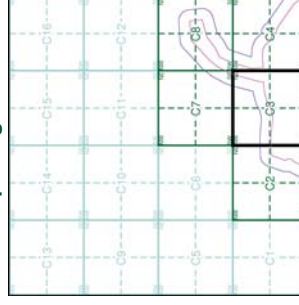


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were first published and were inspired by the 1:62,500 scale maps of the whole of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C3

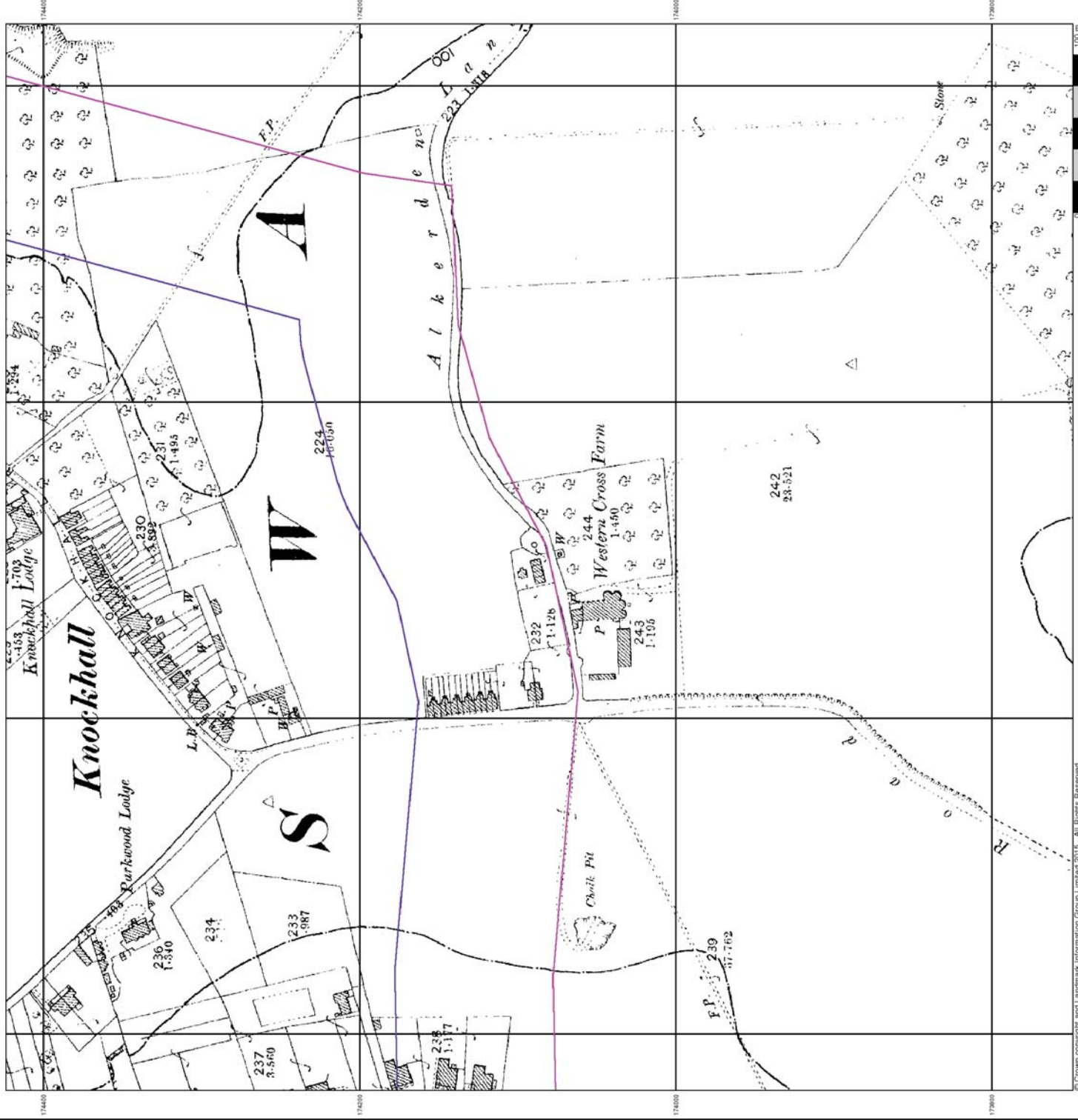


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

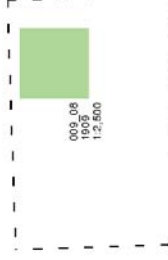
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

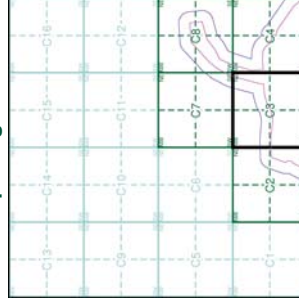


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, and were adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were first published, and were subsequently revised in 1886. It is important to note that the maps were surveyed by the Ordnance Survey, and the published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C3

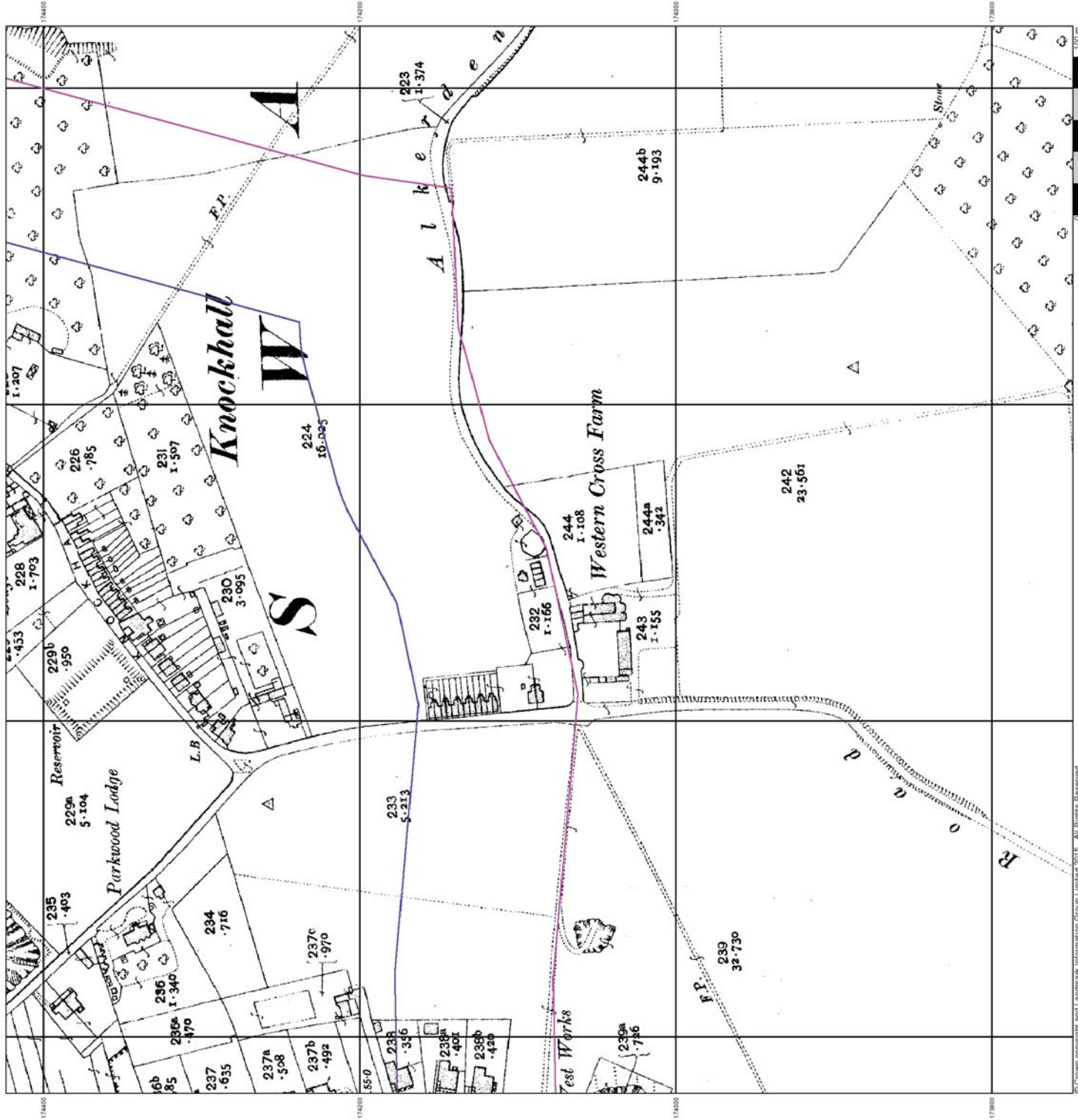


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

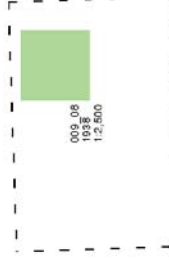
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

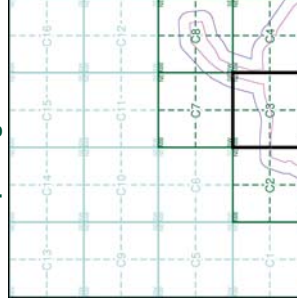


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, in Kent and Scotland in the 1940s. It is 1854 that the 1:2,500 scale maps were first published, and in 1896 it was the whole of what were considered to be the unutilized parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C3

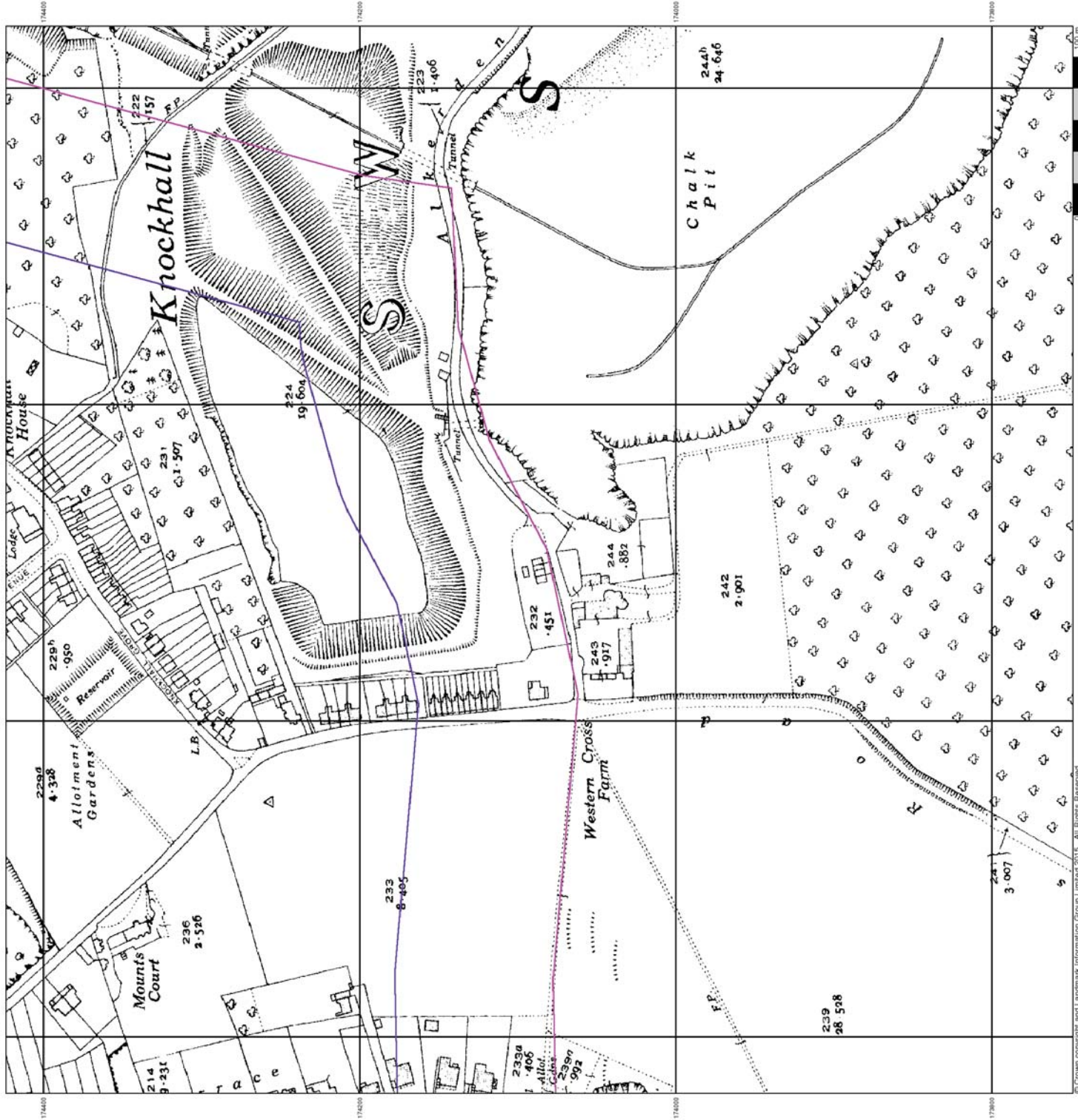


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1953 - 1963

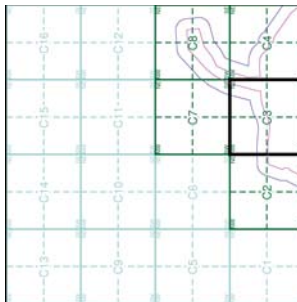
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. 1864 the OS adopted the Cassini projection for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO5674	1953
12,500	12,500
TO5673	1963
12,500	12,500

Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

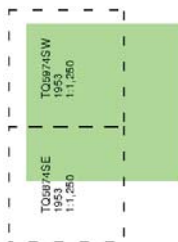
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

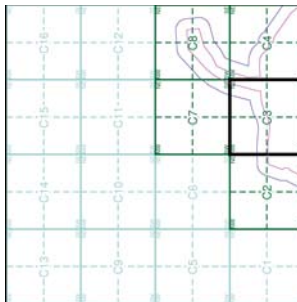


The historical maps shown were reproduced from maps predominantly held at the state adopted for England, Wales and Scotland in the 1840's. In 1854 at the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
C
Slice:
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

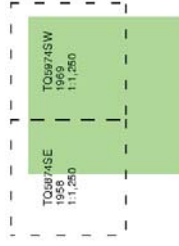
Ordinance Survey Plan

Published 1958 - 1969

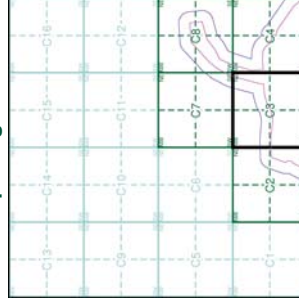
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at 1:25,000 scale for England, Wales and Scotland in the 1940s. 1864 the OS adopted the datum of 1830, which was based on the mean sea level at Liverpool. The whole of what was considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



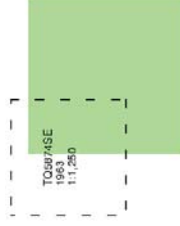
Ordinance Survey Plan

Published 1963

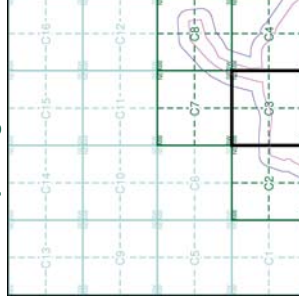
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were adopted for Wales and published by 1896 it covered the whole of what were considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Additional SIMs

Published 1963 - 1978

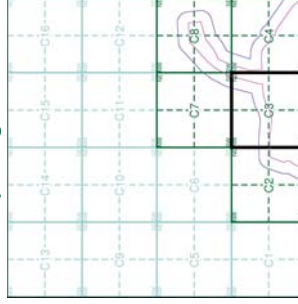
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published from 1963 to 1978. They contain details on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TS0974SE	1963	1:1,250
TS0974SW	1978	1:1,250

Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Published 1963

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

T05873
1963
12.500

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details
Barton Willmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



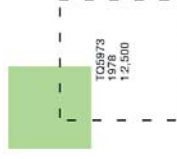
Ordinance Survey Plan

Published 1978

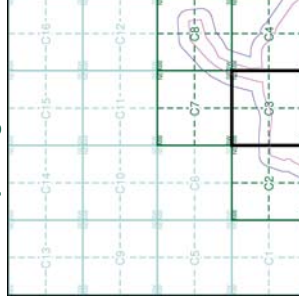
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale maps were adopted for Wales and Scotland. In 1896 it was decided that the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C3

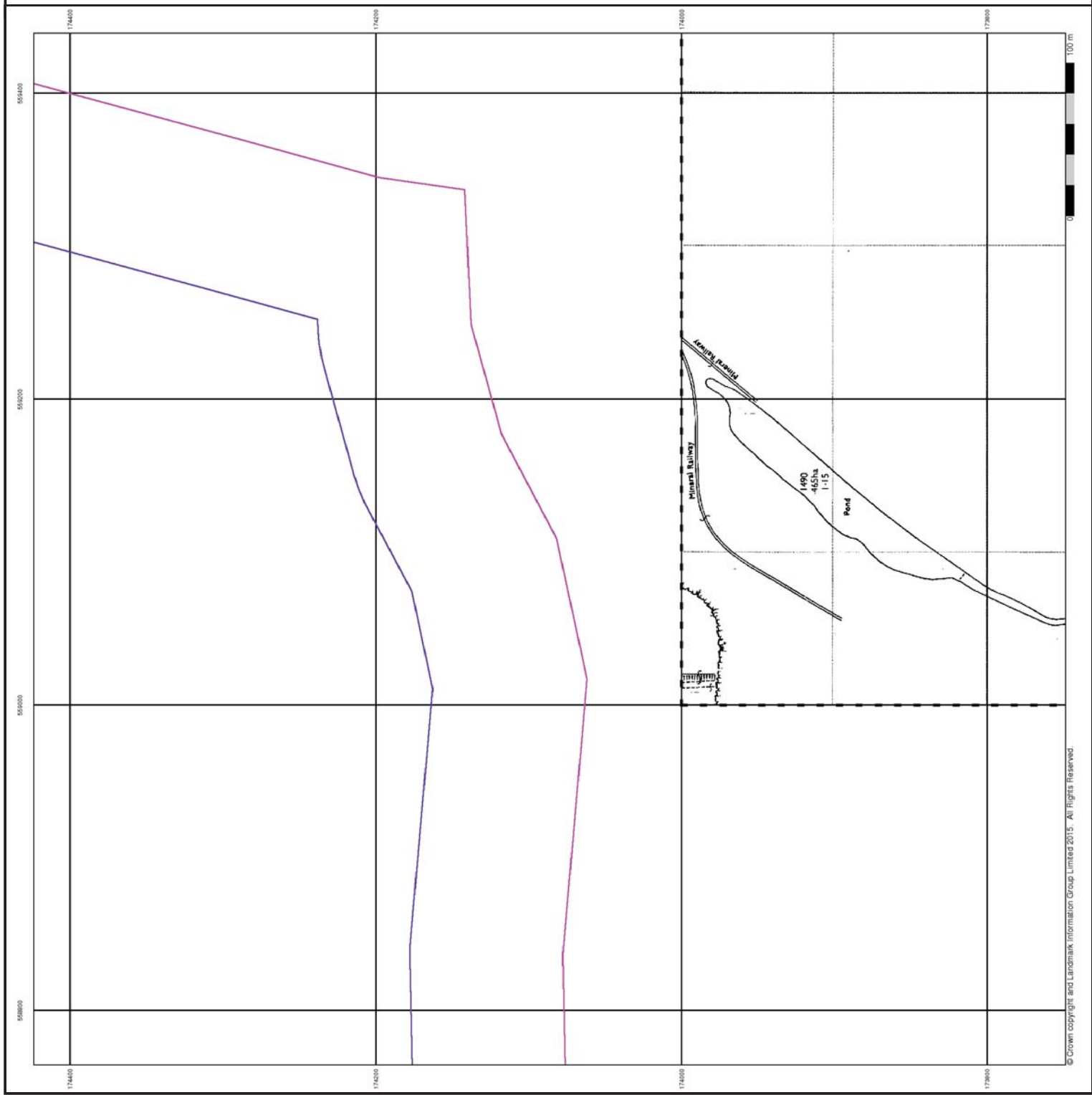


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

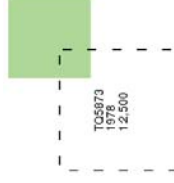
Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



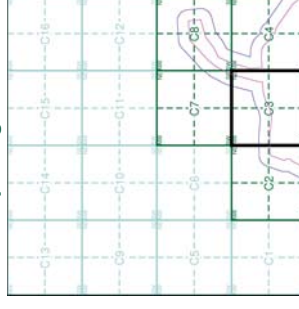
Additional SIMs
Published 1978
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s. They contain information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Additional SIMs

Published 1978 - 1989

Source map scale - 1:1,250

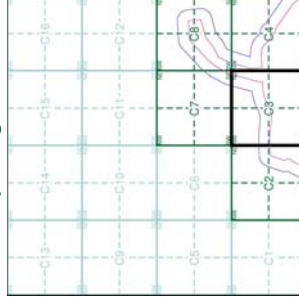
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published from 1978 to 1989. They contain details of the land use in the area from 1947 to 1984, and contain details of the land use, roads and land use.

These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TO5974SE	TO5974SW
1978	1989
1:1,250	1:1,250

Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

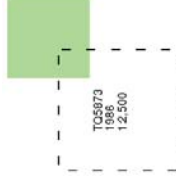
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

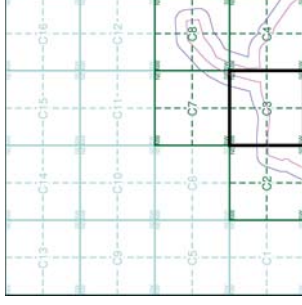
Additional SIMs
Published 1986
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in 1947, 1968, 1986 and 1997. They contain information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

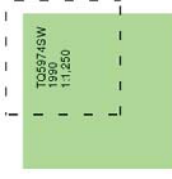
Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

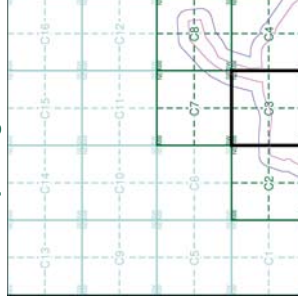
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

Order Details

Order Number:	89304408_1_1
Customer Ref:	250122/00
National Grid Reference:	559070, 174590
Slice:	C
Site Area (Ha):	272.38
Search Buffer (m):	100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

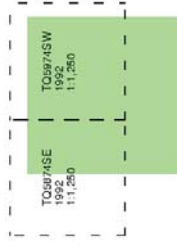
Large-Scale National Grid Data

Published 1992

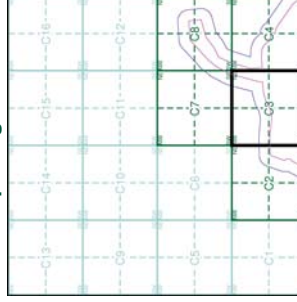
Source map scale - 1:1,250

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of the Environment on Microfilm) in 1992, and continued to be produced until 1999. These maps are produced from aerial photography and provide detailed information on buildings and roads, but large scale maps provide less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C3

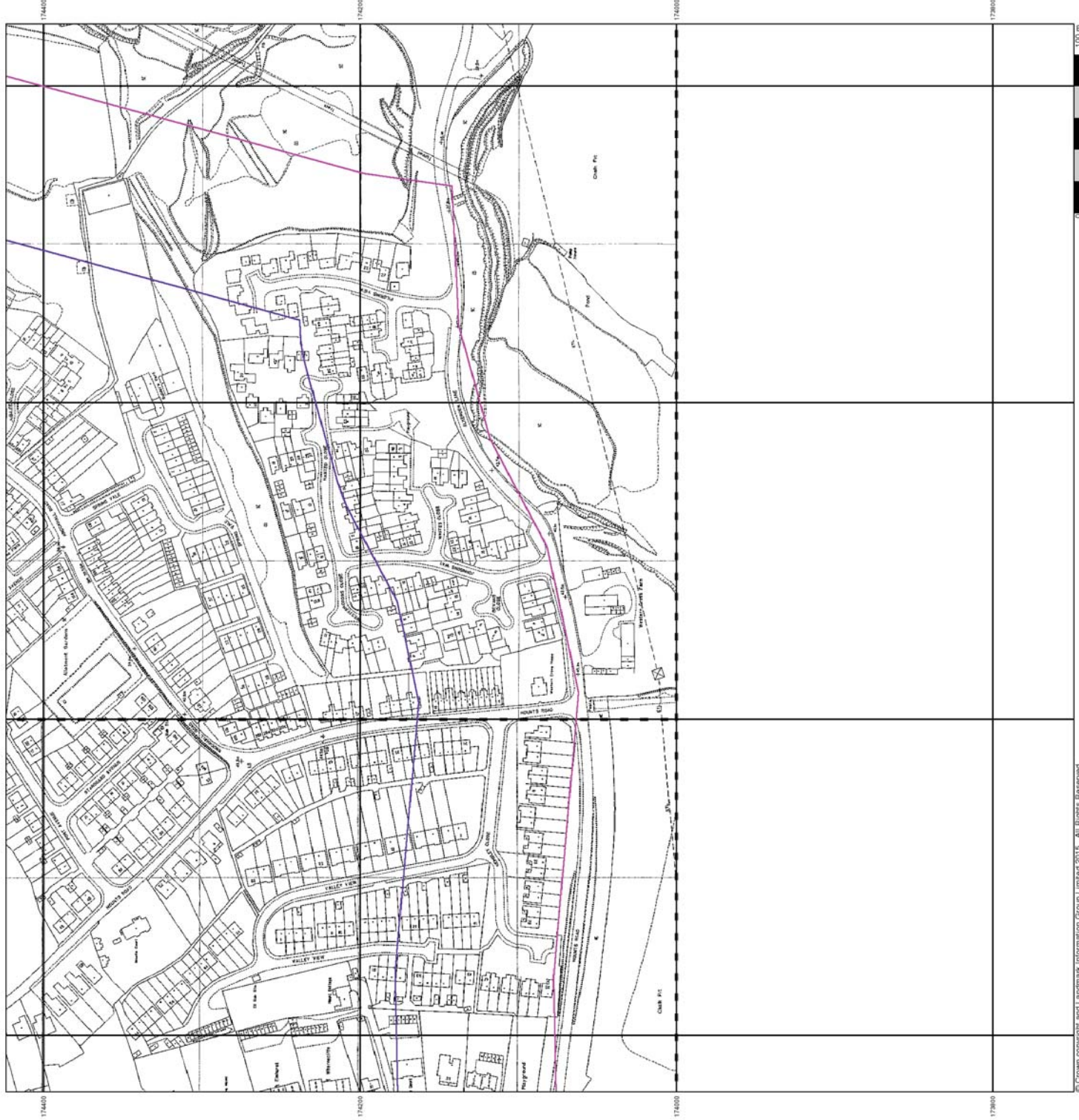


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF





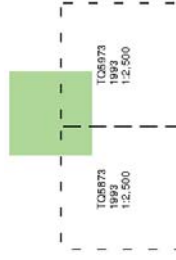
Large-Scale National Grid Data

Published 1993

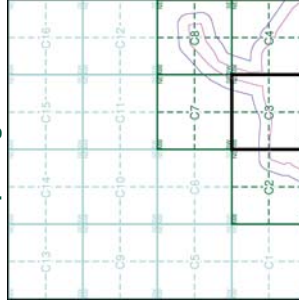
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive if the Grid' map) in 1992, and continued to be produced until 1999. These maps were originally produced for the purpose of providing detailed information on houses and roads, but later on to show topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Large-Scale National Grid Data

Published 1996

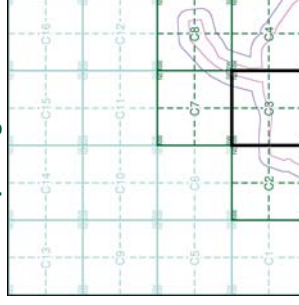
Source map scale - 1:1,250

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey of the Environment) in 1992, and continued to be produced until 1999. These maps were produced by digitising the original maps and provide detailed information on houses and sites, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C3



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck®

Large-Scale National Grid Data 1:2,500 and 1:1,250

Historical Mapping & Photography included:

Topographic Features		Structural Features		Vegetation		Man-made Features		Boundary Lines		Other Features	
	Inactive Quarry, Chalk Pit or Clay Pit		Roofed Building		Non-Coniferous Tree (non-surveyed)		Beer House		County Boundary (Geographical)		Beer House
	Active Quarry, Chalk Pit or Clay Pit		Cliff		Non-Coniferous Trees (not surveyed)		Boundary Post or Stone		Civil Parish Boundary		Capstan, Crane
	Rock		Sloping Masonry		Orchard Tree		Chimney		Civil Parish Boundary		Chimney
	Boulders		Glazed Roof Building		Copse, Osier		Drinking Fountain		County Boundary		Drinking Fountain
	Slopes		Archway		Rough Grassland		Fire Alarm Pillar		County Boundary		Fire Alarm Pillar
	Top		Coniferous Tree (surveyed)		Direction of water flow		Foot Bridge		County Boundary		Foot Bridge
	Top		Coniferous Trees (not surveyed)		Cave Entrance		Guide Post		County Boundary		Guide Post
	Top		Bracken		Electricity Transmission Line		Hydrant or Hydraulic		County Boundary		Hydrant or Hydraulic
	Top		Marsh, Saltings		Electricity Station		Level Crossing		County Boundary		Level Crossing
	Top		Culvert		Electricity Pylon		Manhole		County Boundary		Manhole
	Top		Antiquity (site of)		Electricity Pylon		Mile Post or Mooring Post		County Boundary		Mile Post or Mooring Post
	Top		Triangulation Station		Mile Stone		Normal Tidal Limit		County Boundary		Mile Stone
	Top		Pillar, Pole or Post		Wind Pump				County Boundary		Normal Tidal Limit
	Top		Post Office						County Boundary		
	Top		Public Convenience						County Boundary		
	Top		Public House						County Boundary		
	Top		Pump						County Boundary		
	Top		Signal Box or Bridge						County Boundary		
	Top		Signal Post or Light						County Boundary		
	Top		Tank or Track						County Boundary		
	Top		Telephone Call Box						County Boundary		
	Top		Telephone Call Post						County Boundary		
	Top		Trough						County Boundary		
	Top		Well						County Boundary		
	Top		Wind Pump						County Boundary		

Historical Mapping & Photography included:

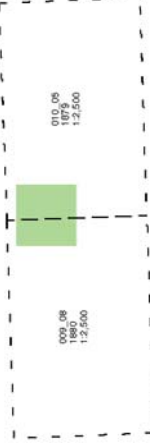
Mapping Type	Scale	Date
Kent	1:2,500	1879 - 1880
Kent	1:2,500	1887
Kent	1:2,500	1909
Kent	1:2,500	1938
Ordinance Survey Plan	1:1,250	1953
Ordinance Survey Plan	1:2,500	1954 - 1963
Ordinance Survey Plan	1:1,250	1959 - 1971
Ordinance Survey Plan	1:2,500	1970 - 1978
Ordinance Survey Plan	1:1,250	1973
Additional SIMs	1:2,500	1978
Additional SIMs	1:1,250	1978 - 1985
Ordinance Survey Plan	1:2,500	1986
Additional SIMs	1:1,250	1989 - 1990
Additional SIMs	1:1,250	1990
Large-Scale National Grid Data	1:1,250	1992
Large-Scale National Grid Data	1:2,500	1992
Large-Scale National Grid Data	1:2,500	1993
Large-Scale National Grid Data	1:2,500	1995
Large-Scale National Grid Data	1:2,500	1995

Order Number: 89304408_1_1
Customer Ref: 250122/00_
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

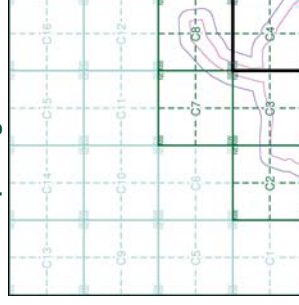
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at a time adopted for England, Wales and Scotland in the 1940s. 1854 the Ordnance Survey was established and by 1886 it had covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

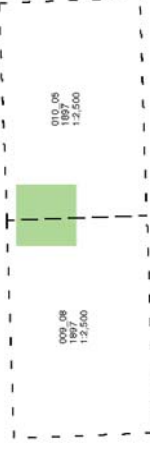
Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

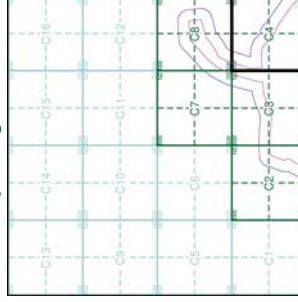
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the first edition of the OS maps was published, which were based on the Cassini Projection. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C4

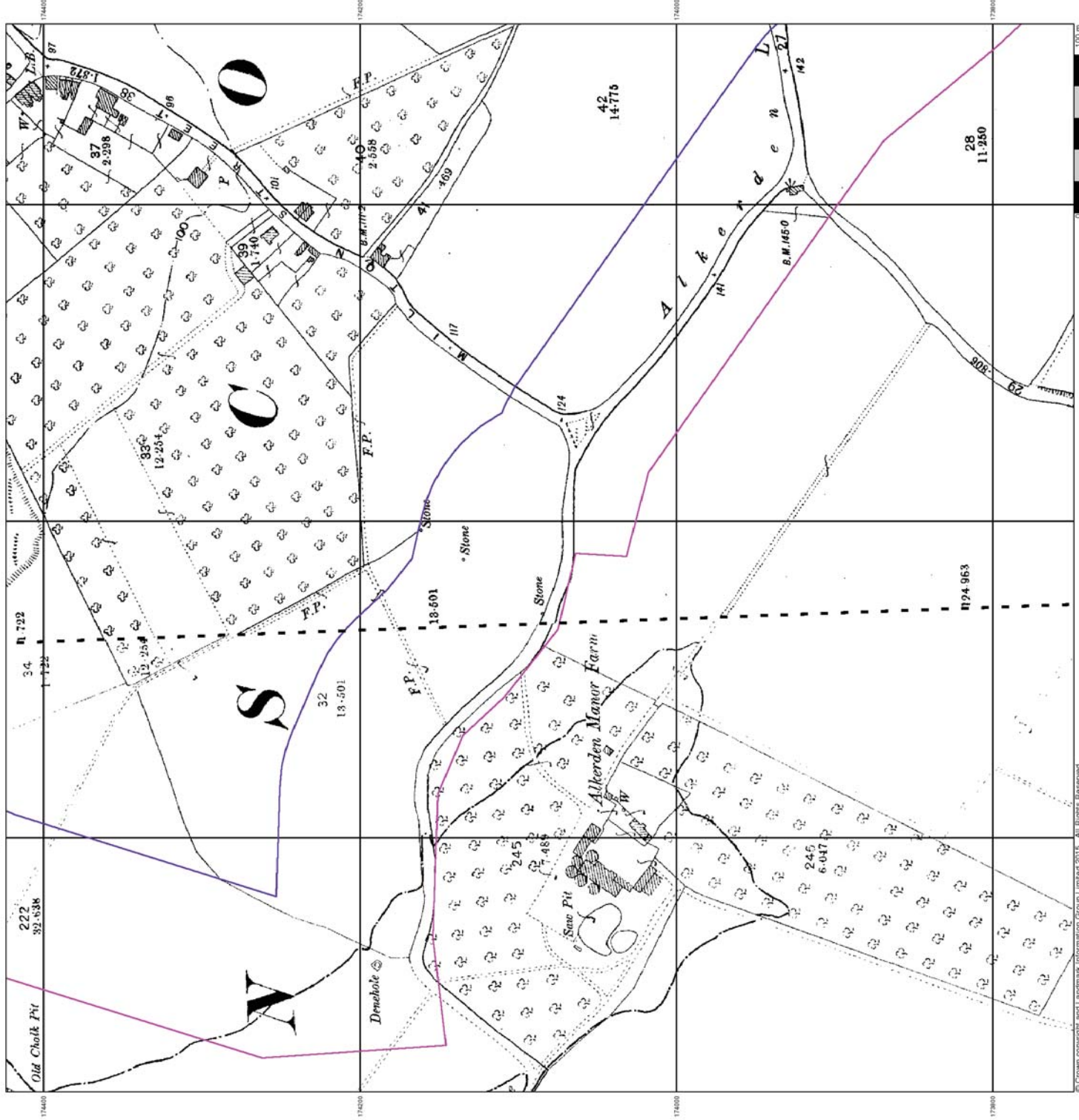


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

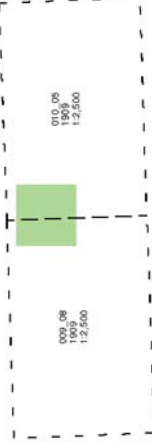
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

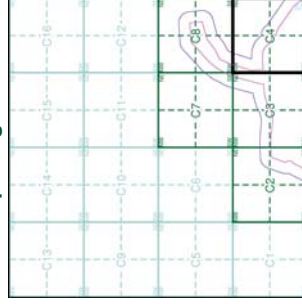


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, and were published in the 1909, 1864, 1854, 1844, 1834, 1824, 1814, 1804, 1794, 1784, 1774, 1764, 1754, 1744, 1734, 1724, 1714, 1704, 1694, 1684, 1674, 1664, 1654, 1644, 1634, 1624, 1614, 1604, 1594, 1584, 1574, 1564, 1554, 1544, 1534, 1524, 1514, 1504, 1494, 1484, 1474, 1464, 1454, 1444, 1434, 1424, 1414, 1404, 1394, 1384, 1374, 1364, 1354, 1344, 1334, 1324, 1314, 1304, 1294, 1284, 1274, 1264, 1254, 1244, 1234, 1224, 1214, 1204, 1194, 1184, 1174, 1164, 1154, 1144, 1134, 1124, 1114, 1104, 1094, 1084, 1074, 1064, 1054, 1044, 1034, 1024, 1014, 1004, 994, 984, 974, 964, 954, 944, 934, 924, 914, 904, 894, 884, 874, 864, 854, 844, 834, 824, 814, 804, 794, 784, 774, 764, 754, 744, 734, 724, 714, 704, 694, 684, 674, 664, 654, 644, 634, 624, 614, 604, 594, 584, 574, 564, 554, 544, 534, 524, 514, 504, 494, 484, 474, 464, 454, 444, 434, 424, 414, 404, 394, 384, 374, 364, 354, 344, 334, 324, 314, 304, 294, 284, 274, 264, 254, 244, 234, 224, 214, 204, 194, 184, 174, 164, 154, 144, 134, 124, 114, 104, 94, 84, 74, 64, 54, 44, 34, 24, 14, 4, 0.

Map Name(s) and Date(s)



Historical Map - Segment C4

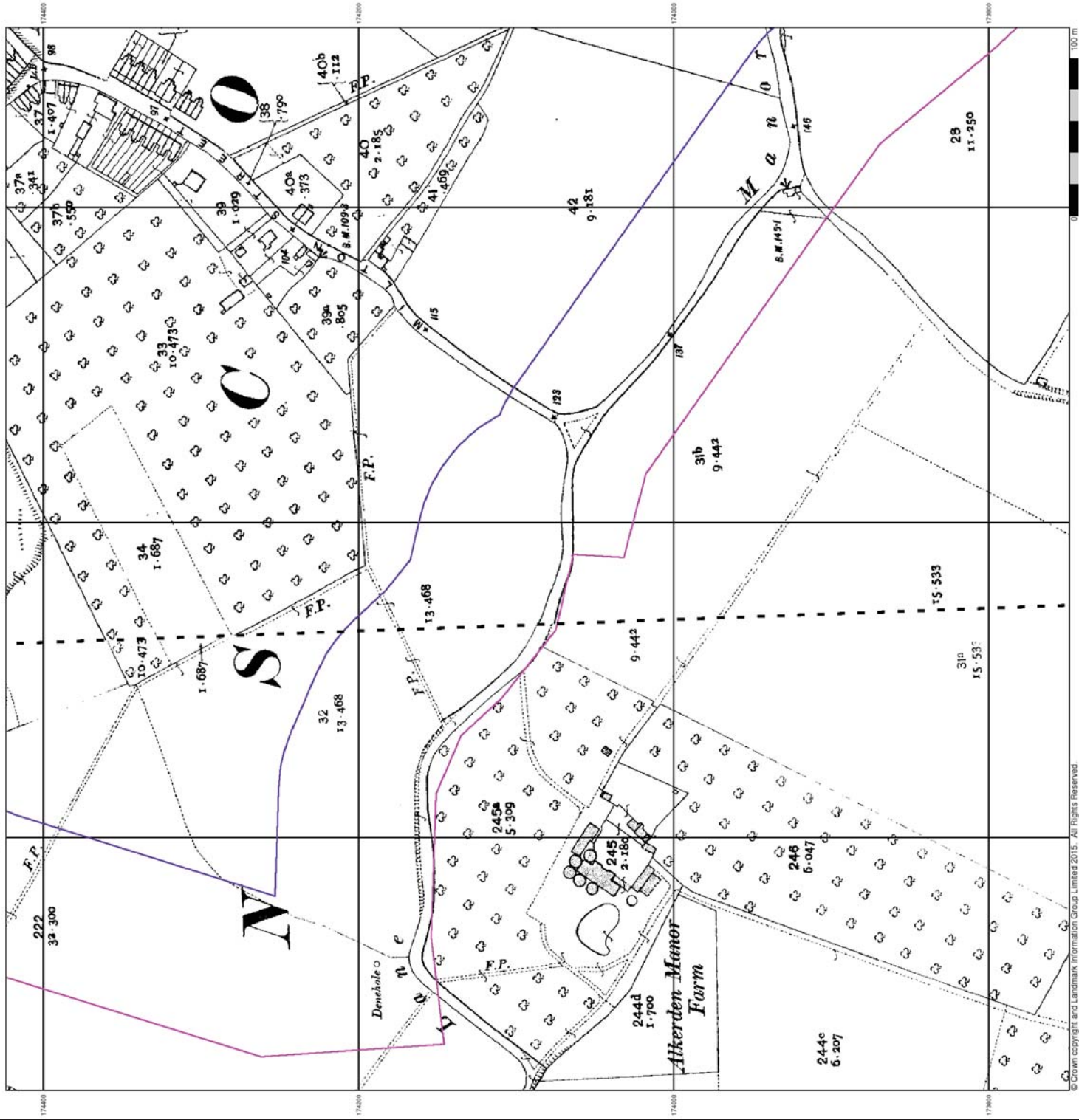


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

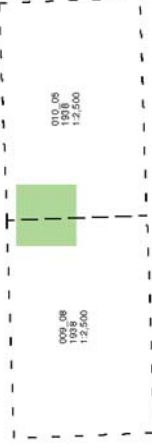
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

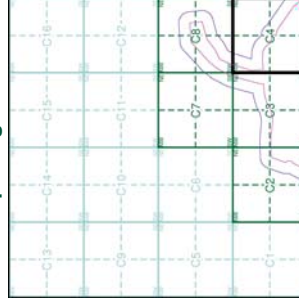


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were prepared by 1864, and the 1:62,500 scale maps were prepared by 1896. It is important to note that the whole of what was considered to be the delineated parts of Great Britain. The published date given below is often many years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C4

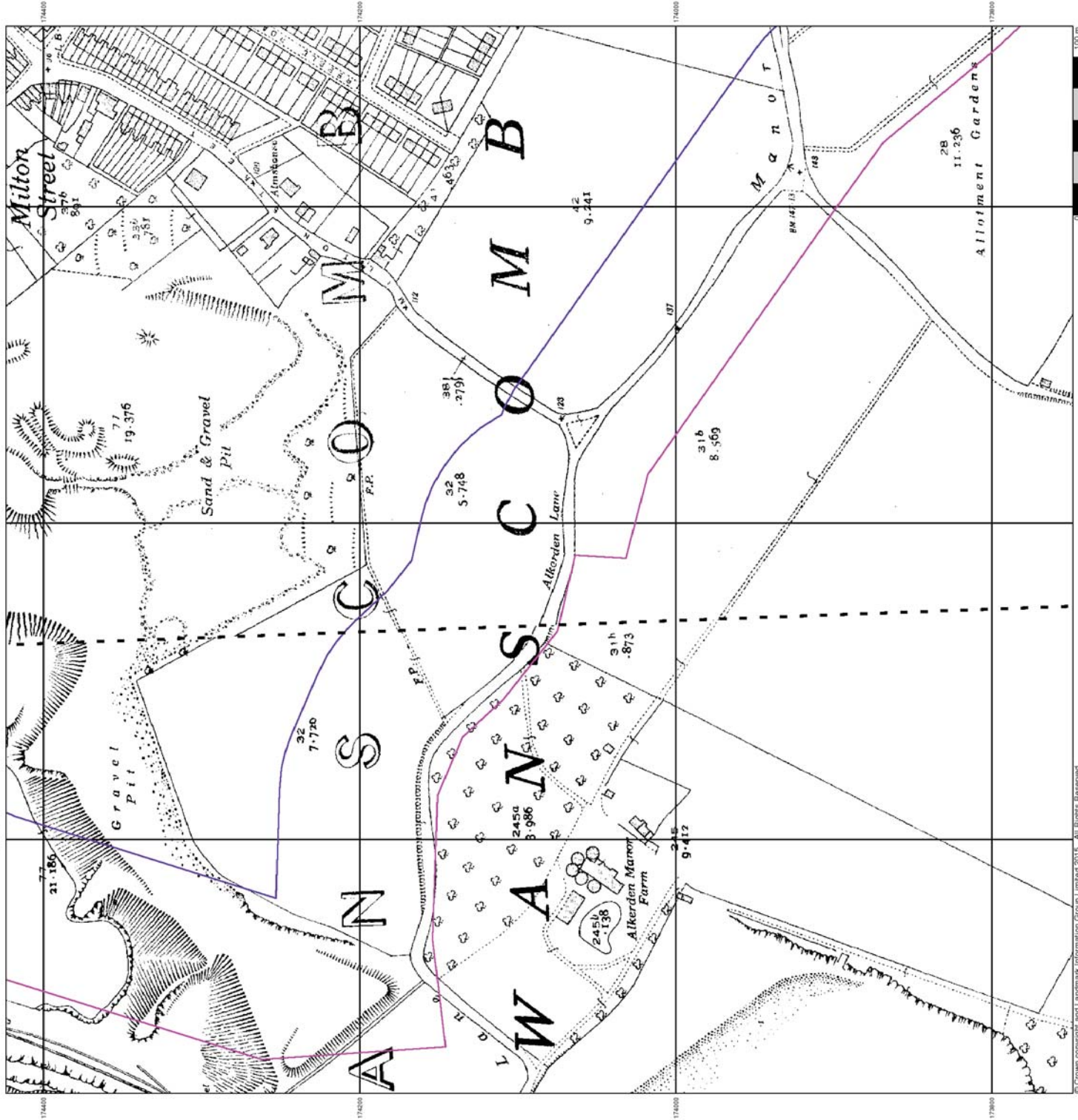


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1959 - 1971

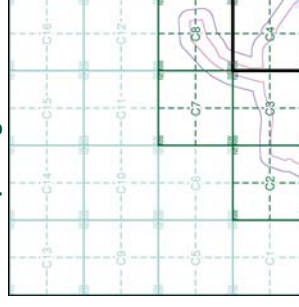
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s, 1950s and 1960s. The maps were then reissued at a 1:1,250 scale by 1986. It is important to note that the whole of what was considered to be the delineated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO5974SW 1969 1:1,250	TO5974SE 1959 1:1,250	TO6074SW 1971 1:1,250
-----------------------------	-----------------------------	-----------------------------

Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1970 - 1978

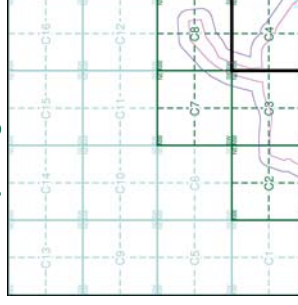
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey of Great Britain. It was the whole of what was then considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TS6573	TS6573
1970	1970
1:2,500	1:2,500

Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



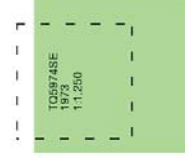
Ordinance Survey Plan

Published 1973

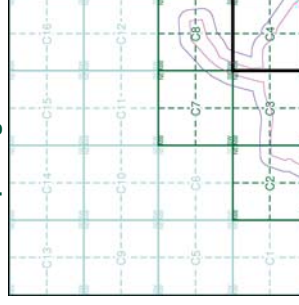
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. In 1854 the Ordnance Survey was established and by 1896 it had surveyed the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

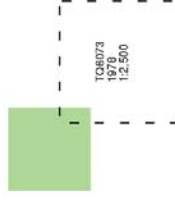
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



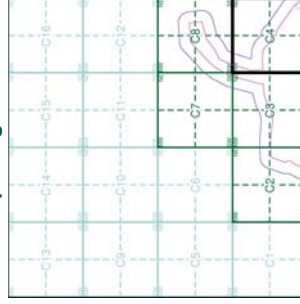
Additional SIMs **Published 1978** **Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s. They contain information on the environment, including the 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Additional SIMs

Published 1978 - 1985

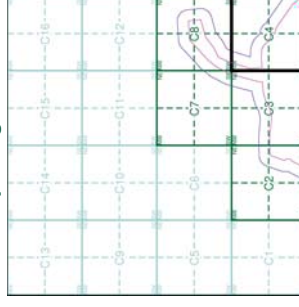
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published by the Ordnance Survey in the early 1970s. They were produced from 1947 to 1984, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TO5974SW	1978
TO6074SW	1985
1:1,250	1:1,250

Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

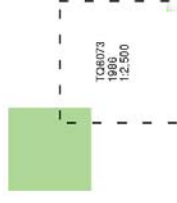
Ordnance Survey Plan

Published 1986

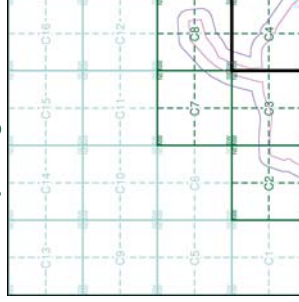
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey of Great Britain. It was the whole of what was then considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Additional SIMs

Published 1989 - 1990

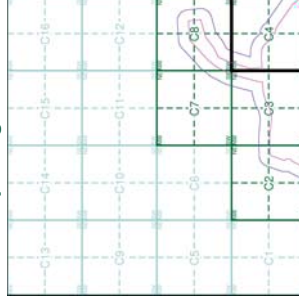
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published by the Ordnance Survey from 1947 to 1997 to help the public and professionals find information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TO5974SW	TO6074SW
1989	1990
1:1,250	1:1,250

Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

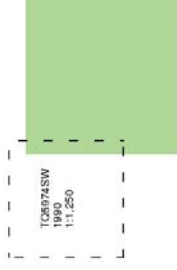
Additional SIMs

Published 1990

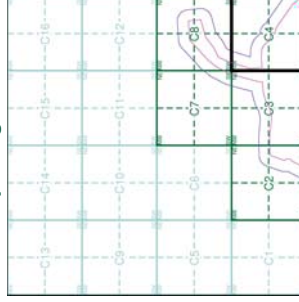
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1990s. The SIM cards are a series of microfilm cards that contain data from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Large-Scale National Grid Data

Published 1992

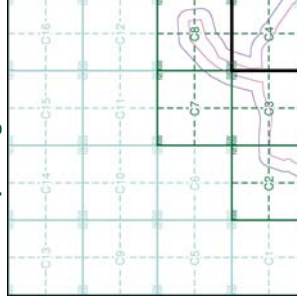
Source map scale - 1:1,250

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were produced by digitising aerial photography and provide detailed information on houses and other built features, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TO6974SW	TO6974SE	TO6974SW
1992	1:1,250	1992
1:1,250		1:1,250

Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



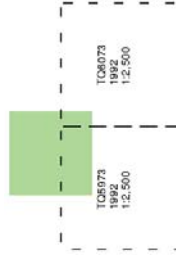
Large-Scale National Grid Data

Published 1992

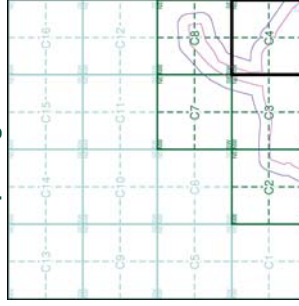
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the original mapping and do not provide detailed information on houses and roads, but large scale less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

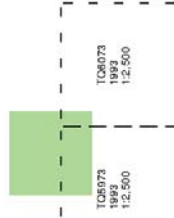
Large-Scale National Grid Data

Published 1993

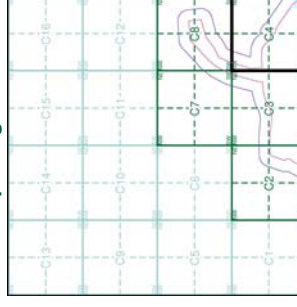
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the original mapping and do not provide detailed information on houses and roads, but large scale less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF





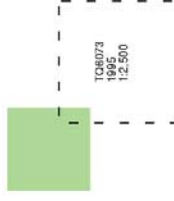
Large-Scale National Grid Data

Published 1995

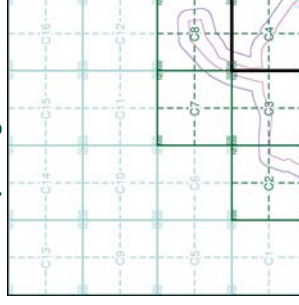
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive if Tomorrow') in 1992, and continued to be produced until 1999. These maps were originally designed to provide detailed information on houses and roads, but later to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C4



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

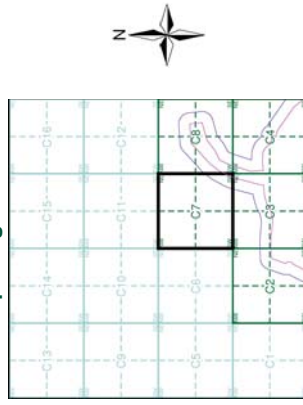
Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500

Large-Scale National Grid Data 1:2,500 and
1:1,250

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1880 - 1884	2
Kent	1:2,500	1897	3
Kent	1:2,500	1909	4
Essex	1:2,500	1924	5
Kent	1:2,500	1938	6
Essex	1:2,500	1939	7
Ordnance Survey Plan	1:2,500	1953 - 1954	8
Ordnance Survey Plan	1:1,250	1953	9
Additional SIMs	1:2,500	1954	10
Ordnance Survey Plan	1:2,500	1958 - 1971	11
Ordnance Survey Plan	1:1,250	1963	12
Additional SIMs	1:1,250	1963 - 1984	13
Additional SIMs	1:1,250	1978 - 1990	14
Additional SIMs	1:1,250	1990	15
Large-Scale National Grid Data	1:1,250	1992	16
Large-Scale National Grid Data	1:1,250	1994	17
Large-Scale National Grid Data	1:1,250	1996	18

Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

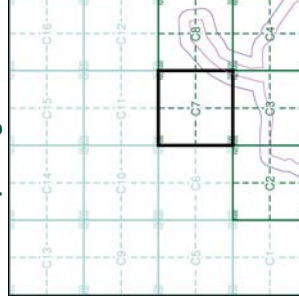
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1840s and 1850s. The maps were digitised and reprojected to the current datum by 1884. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

000_04	1884
1:2,500	
000_08	1880
1:2,500	

Historical Map - Segment C7

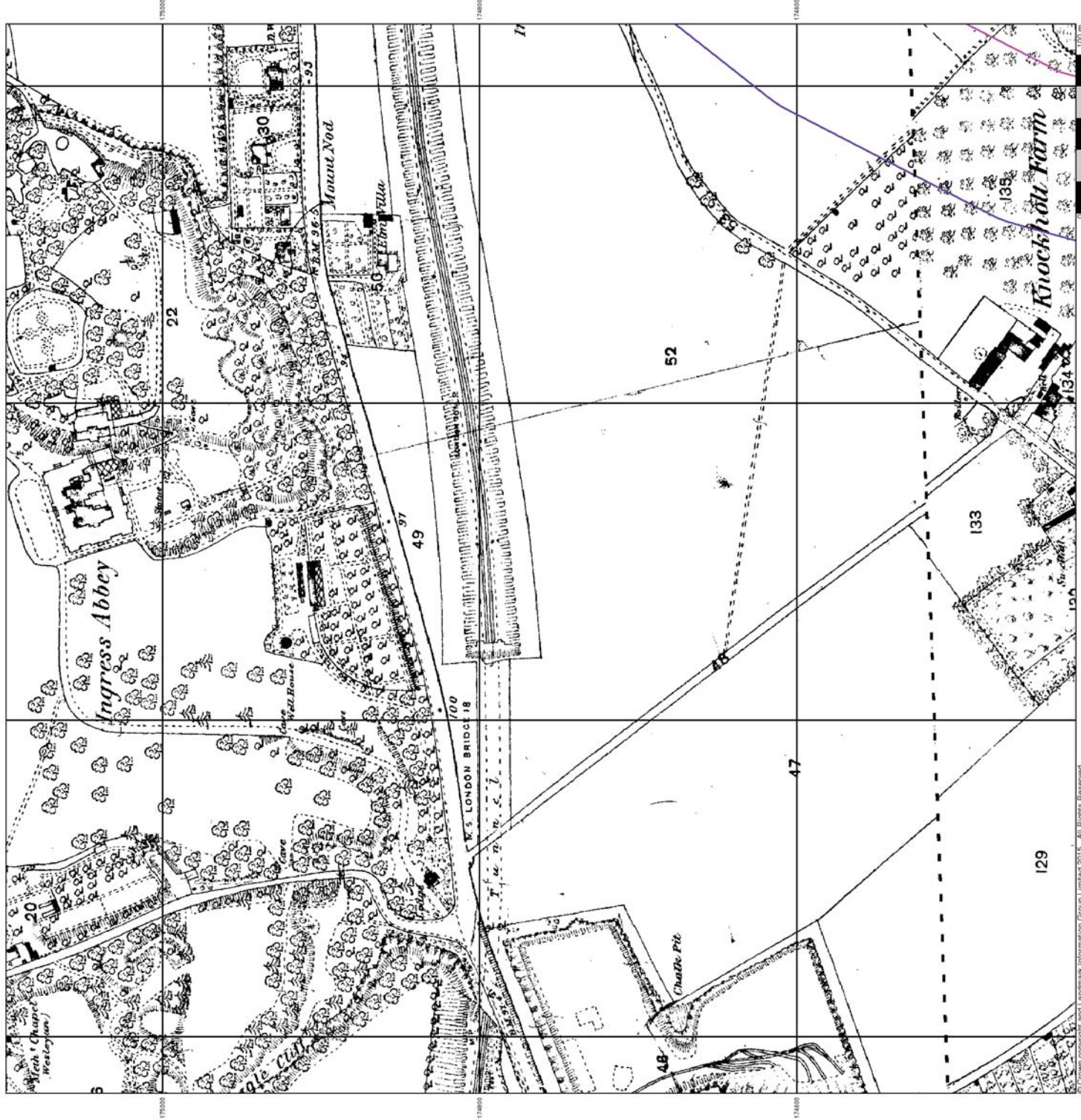


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

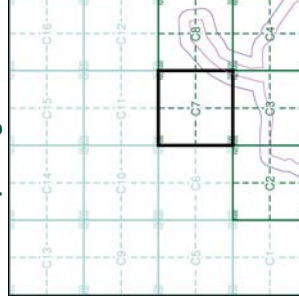


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. 1854 the Ordnance Survey (OS) was created by the merger of the Ordnance Survey and the War Office. The published date given below is often many years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

000_04	1897	1:2,500
000_08	1897	1:2,500

Historical Map - Segment C7

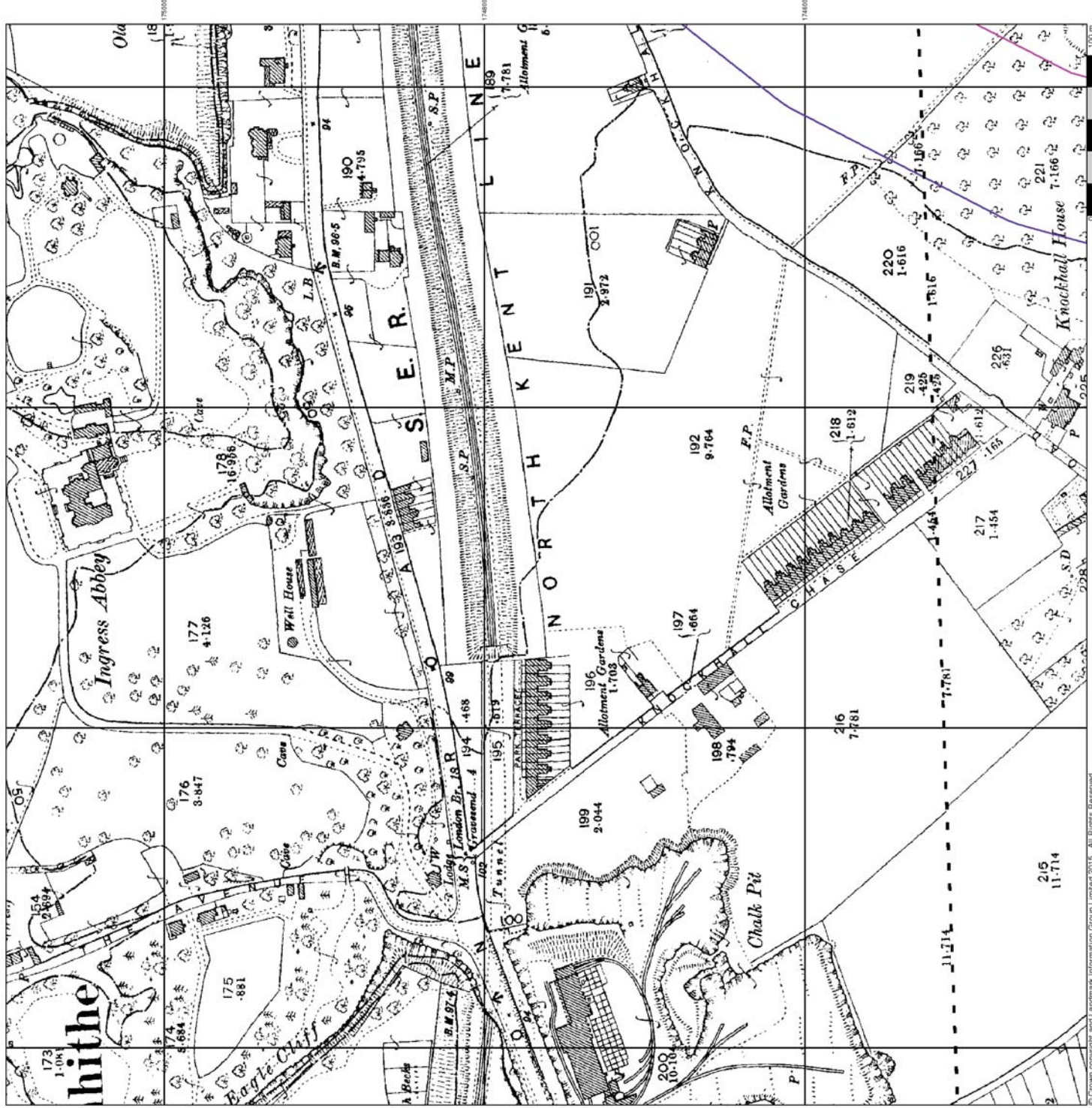


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

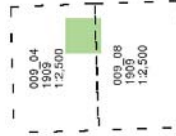
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

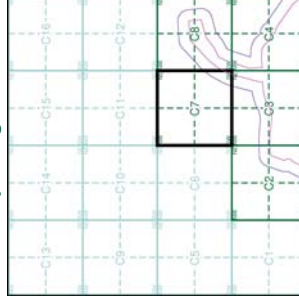


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale in England, Wales and Scotland in the 1940s. The maps were then adopted for England, Wales and Scotland in the 1940s. The maps were then adopted for England, Wales and Scotland in the 1940s. The maps were then adopted for England, Wales and Scotland in the 1940s.

Map Name(s) and Date(s)



Historical Map - Segment C7

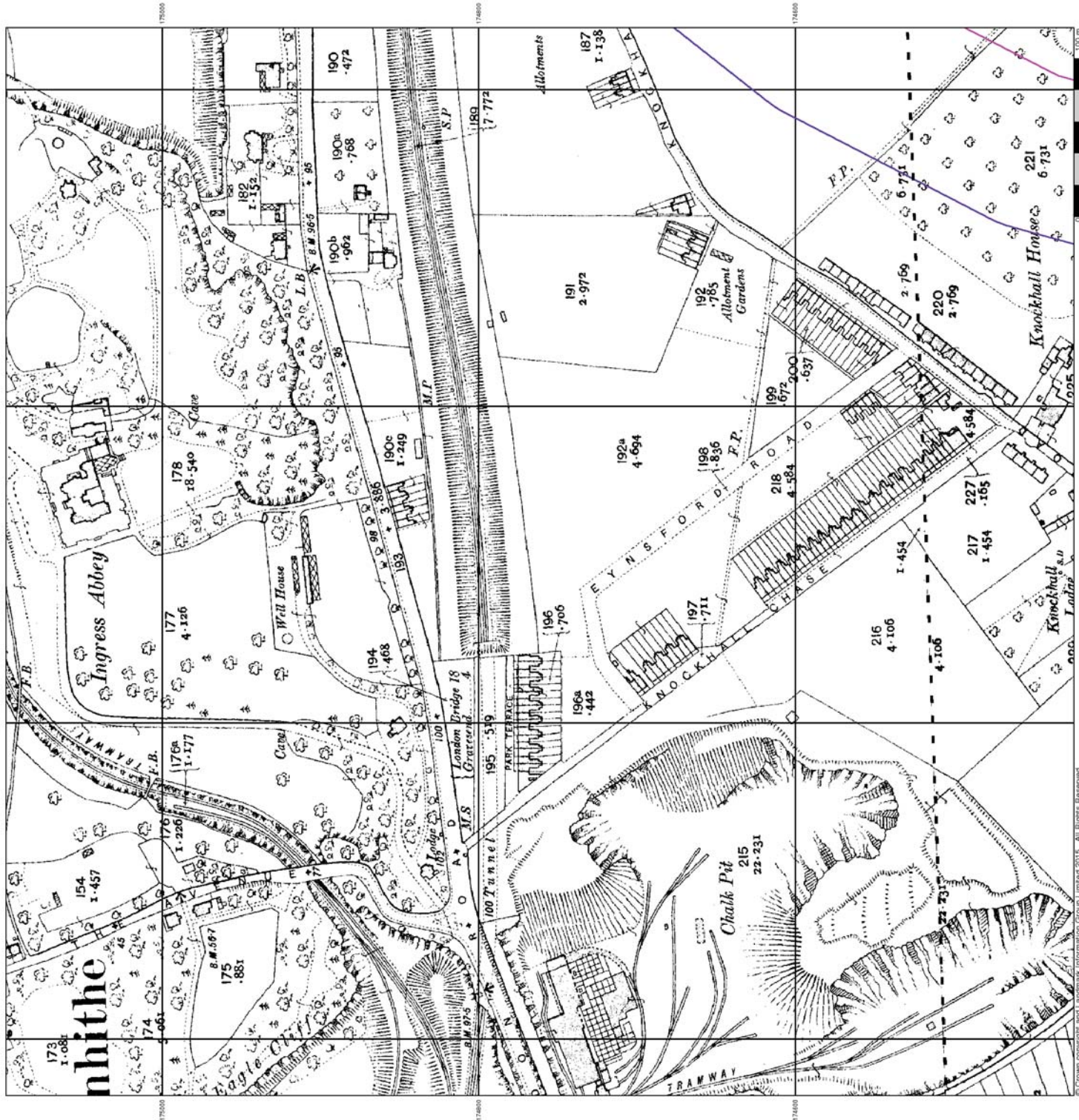


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road, SWANSCOMBE, Kent, DA10 0DF



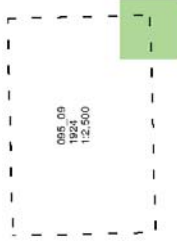
Essex

Published 1924

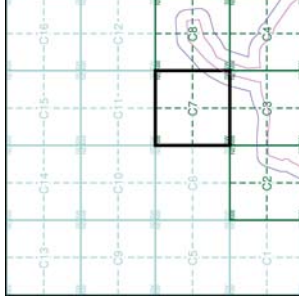
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale Ordnance Survey map was published, which was the first to cover the whole of what was considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

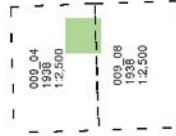
Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

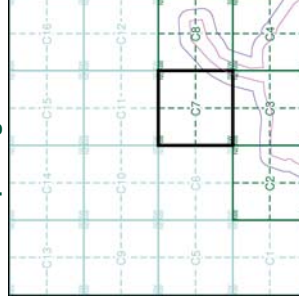
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the state adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in surveying areas.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

Order Details

Order Number:	89304408_1_1
Customer Ref:	250122100
National Grid Reference:	559070, 174590
Slice:	C
Site Area (Ha):	272.38
Search Buffer (m):	100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

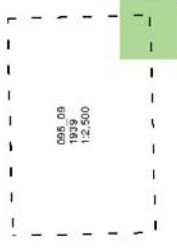
Essex

Published 1939

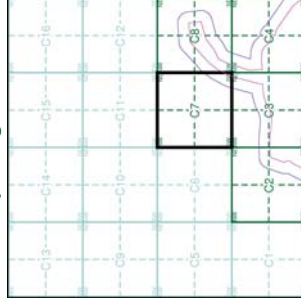
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were revised and updated to reflect the changes in the landscape. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Ordnance Survey Plan Published 1953 - 1954

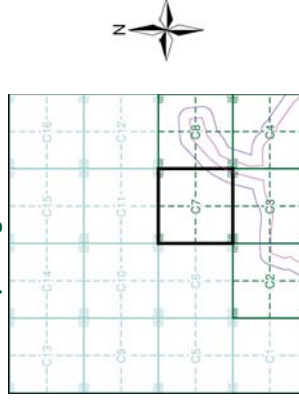
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. 1854 the 1:2,500 scale maps were replaced by 1856 it. The maps were prepared by the Ordnance Survey, which was the only map publisher in the United Kingdom at the time. The published date given below is often years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO5675	1954	12,500
TO5675	1954	12,500
TO5674	1953	12,500
TO5674	1953	12,500

Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

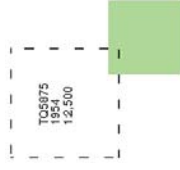
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



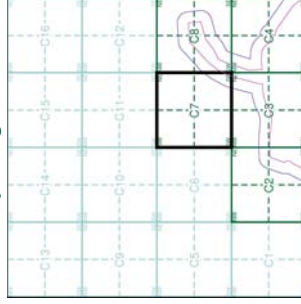
**Additional SIMs
Published 1954
Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1940s and 1950s. They contain information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Ordnance Survey Plan Published 1958 - 1971

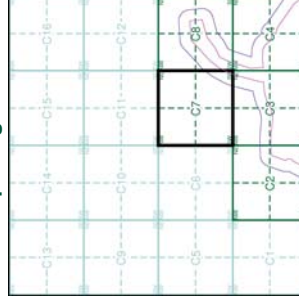
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. In 1954, the Ordnance Survey decided to reproject the maps to the datum of 1936. It was decided that the whole of what was considered to be the populated parts of Great Britain. The published date given below is often many years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO587458H Q557458M	1971	971
	1:1,250	1:1,250
TO587458H Q557458M	1969	969
	1:1,250	1:1,250
TO587458H Q557458M	1958	958
	1:1,250	1:1,250

Historical Map - Segment C7

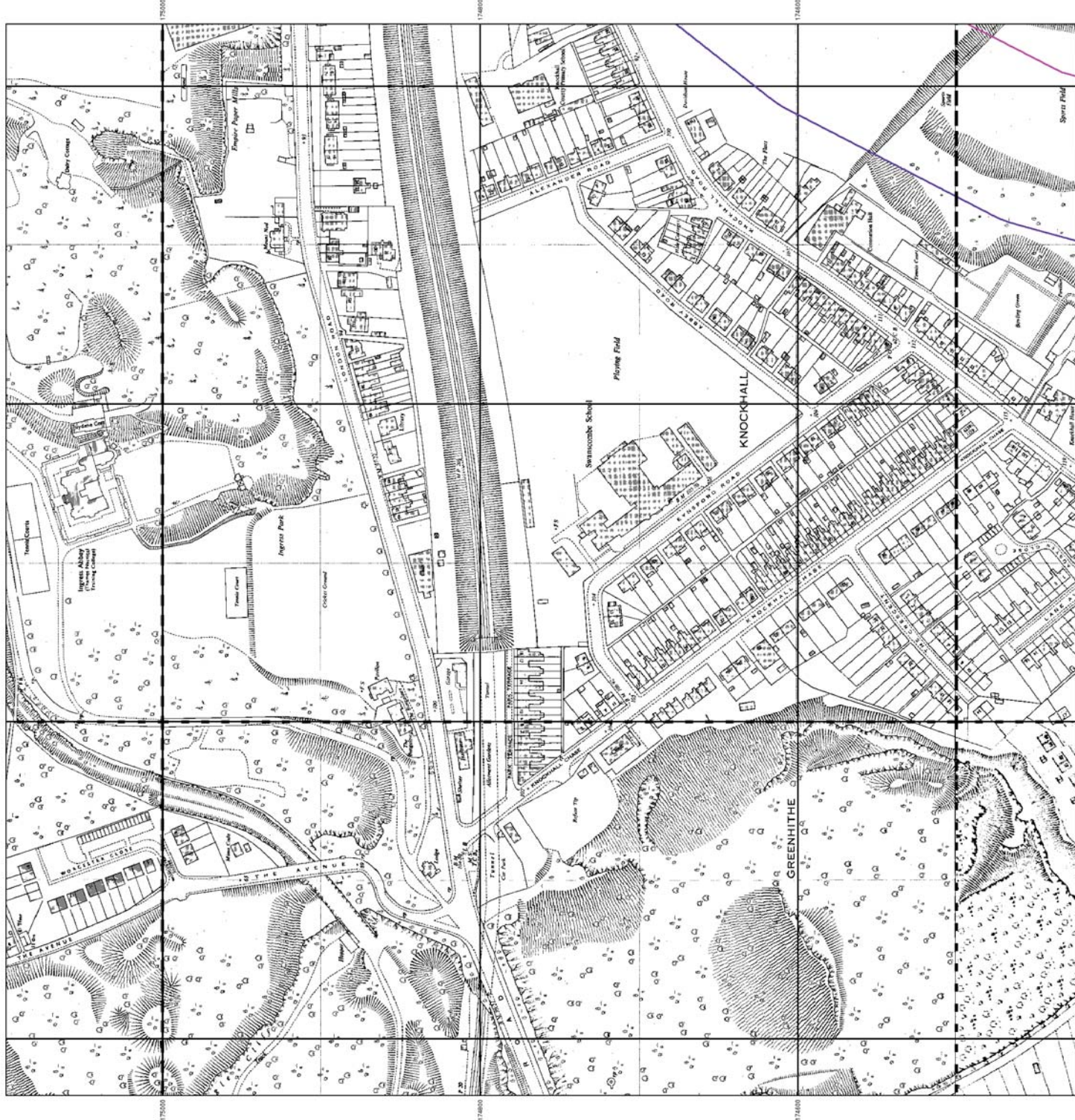


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1963

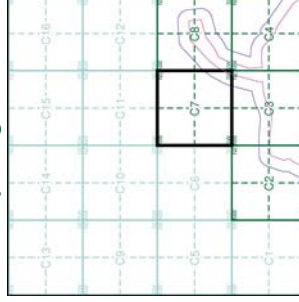
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale Ordnance Survey map was first published. It was the first to cover the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

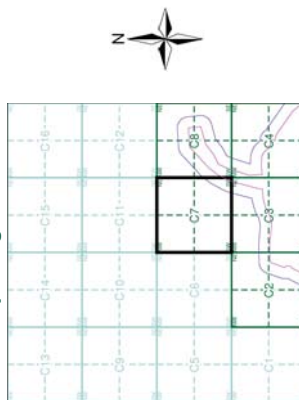
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

Q5875SB	Q5975SW
1983	1979
1:1.250	1:1.250
Q5874NB	Q5974NW
1984	1983
1:1.250	1:1.250
Q5874SB	Q5974SW
1983	1978
1:1.250	1:1.250

Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
C
Slice:
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Additional SIMs

Published 1978 - 1990

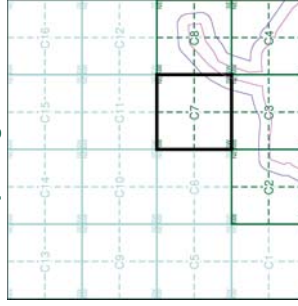
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s and 1980s. They contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

OS8775SE
 1990
 1:1,250
 OS874NE
 1990
 1:1,250
 OS874S3
 1978 1989
 1:1,250

Historical Map - Segment C7

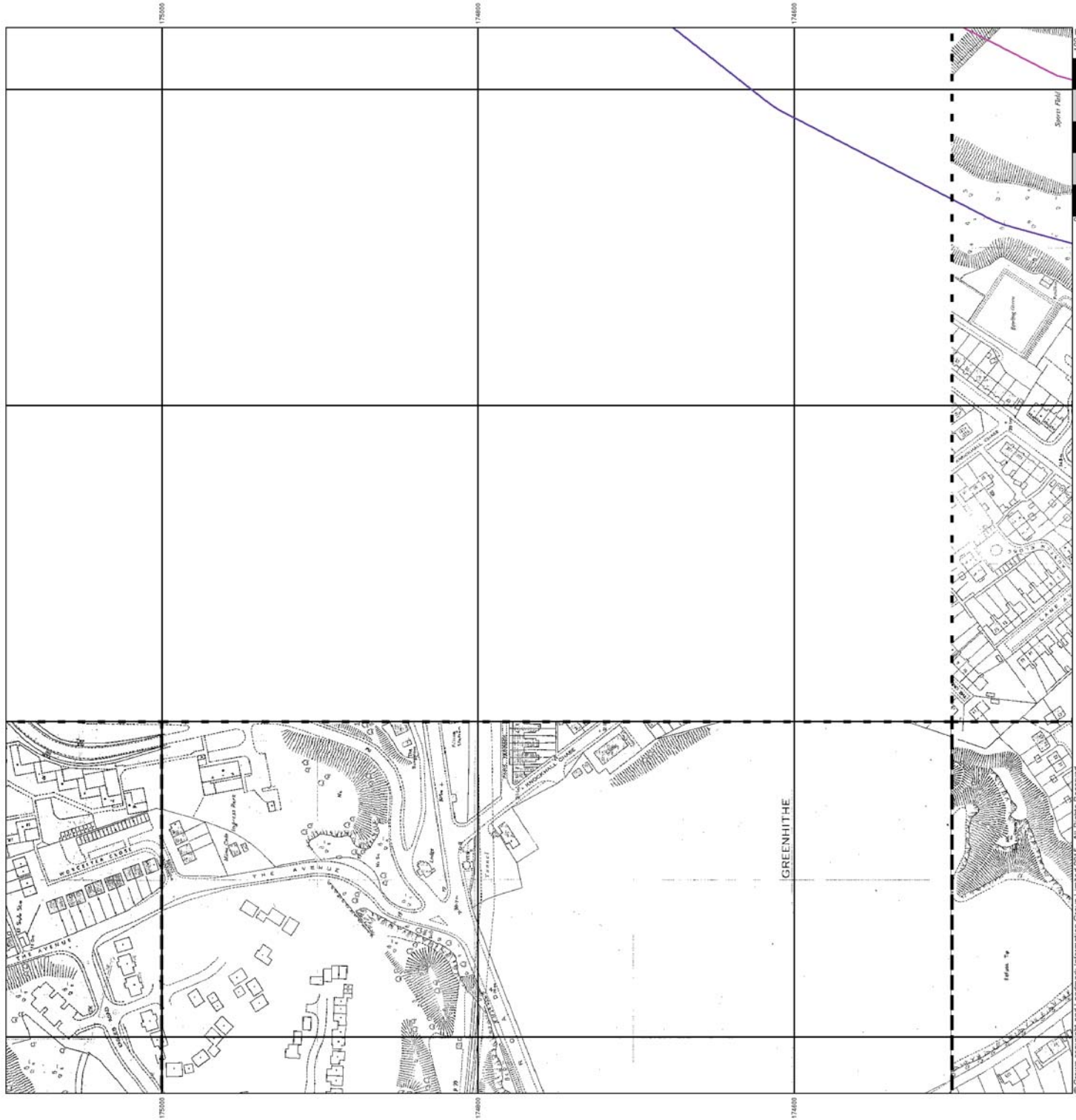


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF





Additional SIMs

Published 1990

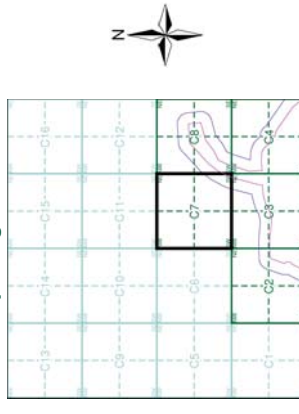
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:12,500 scales.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Site Details
Barton Willmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Large-Scale National Grid Data Published 1992

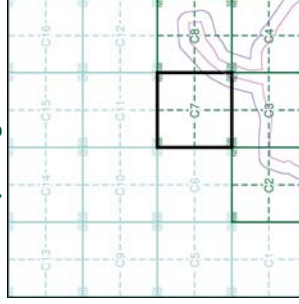
Source map scale - 1:1,250

Large Scale National Grid Data superimposed SIM cards (Ordnance Survey's Survey of Information on Microform) in 1992, and continued to be produced until 1999. These maps are produced by digitising the original maps and provide detailed information on houses and other built-up areas, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

1059755H Q59755V	1992	1992
1:1,250	1:1,250	1:1,250
1059755H Q59755V	1992	1992
1:1,250	1:1,250	1:1,250
1059755H Q59755V	1992	1992
1:1,250	1:1,250	1:1,250

Historical Map - Segment C7



Order Details

Order Number: 8930408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

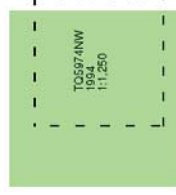


Large-Scale National Grid Data Published 1994

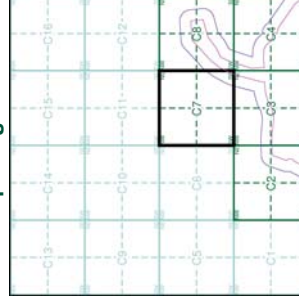
Source map scale - 1:1,250

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1999. These maps are the original mapping and do not provide detailed information on houses and roads, but large scale topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



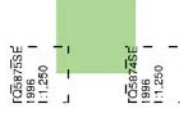


Large-Scale National Grid Data Published 1996

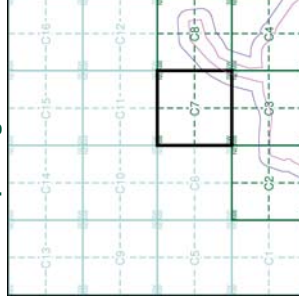
Source map scale - 1:1,250

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were produced by digitising aerial photography and provide detailed information on houses and other built land, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C7



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

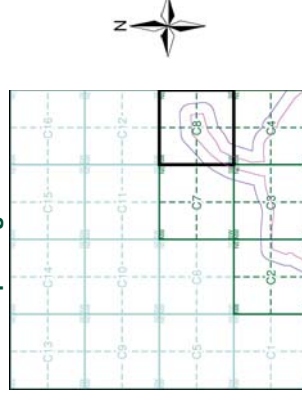


Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1864 - 1884	2
Kent	1:2,500	1897 - 1898	3
Kent	1:2,500	1909	4
Kent	1:2,500	1938 - 1939	5
Ordnance Survey Plan	1:1,250	1953	6
Ordnance Survey Plan	1:2,500	1954	7
Ordnance Survey Plan	1:1,250	1959 - 1972	8
Ordnance Survey Plan	1:2,500	1971	9
Ordnance Survey Plan	1:1,250	1973 - 1975	10
Additional SIMs	1:1,250	1978 - 1989	11
Additional SIMs	1:1,250	1983 - 1990	12
Additional SIMs	1:2,500	1984	13
Additional SIMs	1:1,250	1990	14
Large-Scale National Grid Data	1:1,250	1992	15
Large-Scale National Grid Data	1:1,250	1993 - 1994	16

Historical Map - Segment C8



Order Details

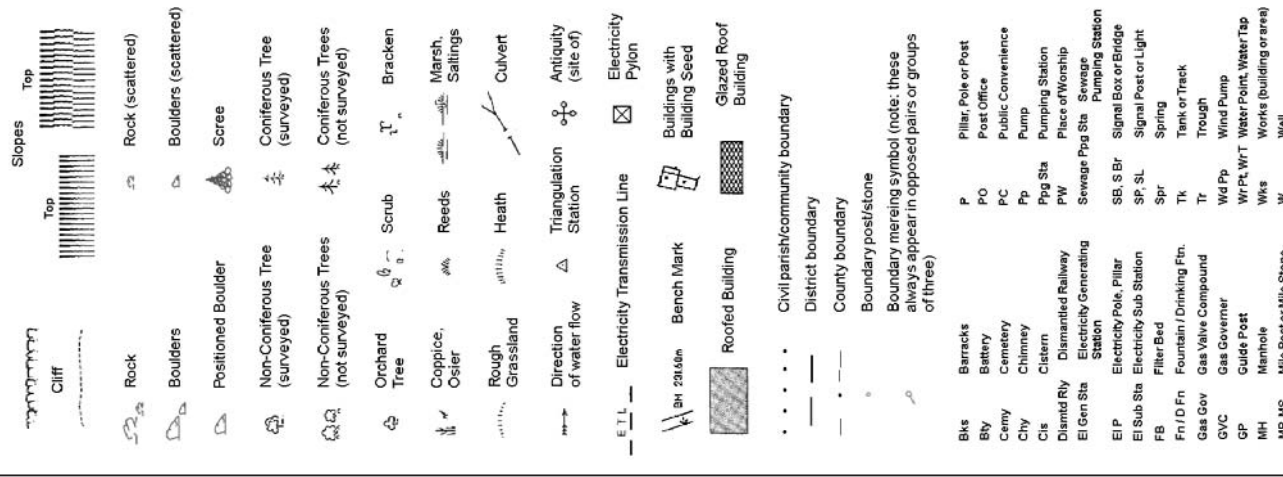
Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 59070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

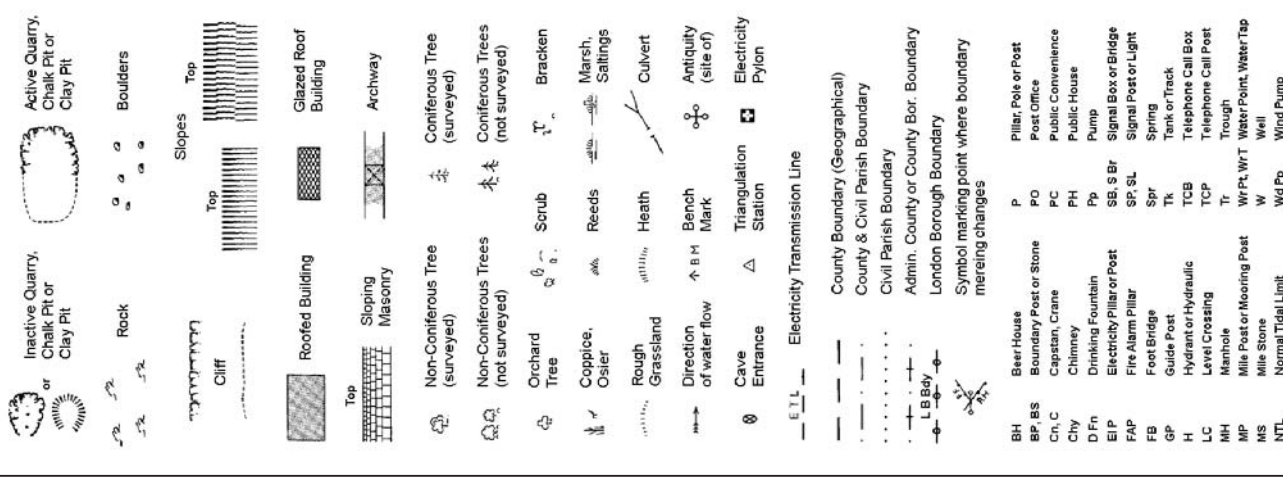
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Historical Mapping Legends

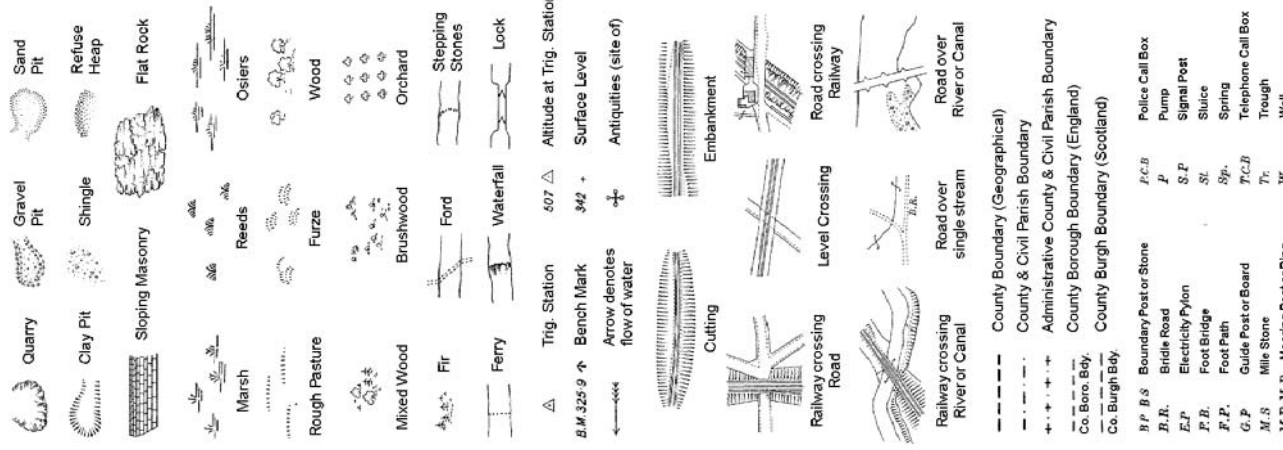
Large-Scale National Grid Data 1:2,500 and 1:1,250



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information
1:2,500 and 1:1,250



**Ordinance Survey County Series and
Ordinance Survey Plan 1:2,500**

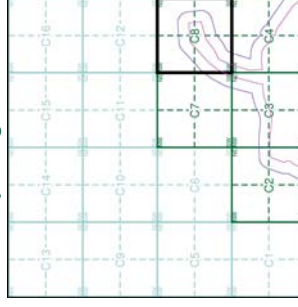


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, and were published in the 1860s and 1870s. The maps were adopted for England, Wales and Scotland in the 1840s. In 1864, the maps were revised and the scale was changed to 1:2,500. The maps were then revised in 1884. The published date given below is often many years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

090.04	1864	1:2,500
010.01	1864	1:2,500
009.00	1879	1:2,500
010.05	1879	1:2,500

Historical Map - Segment C8

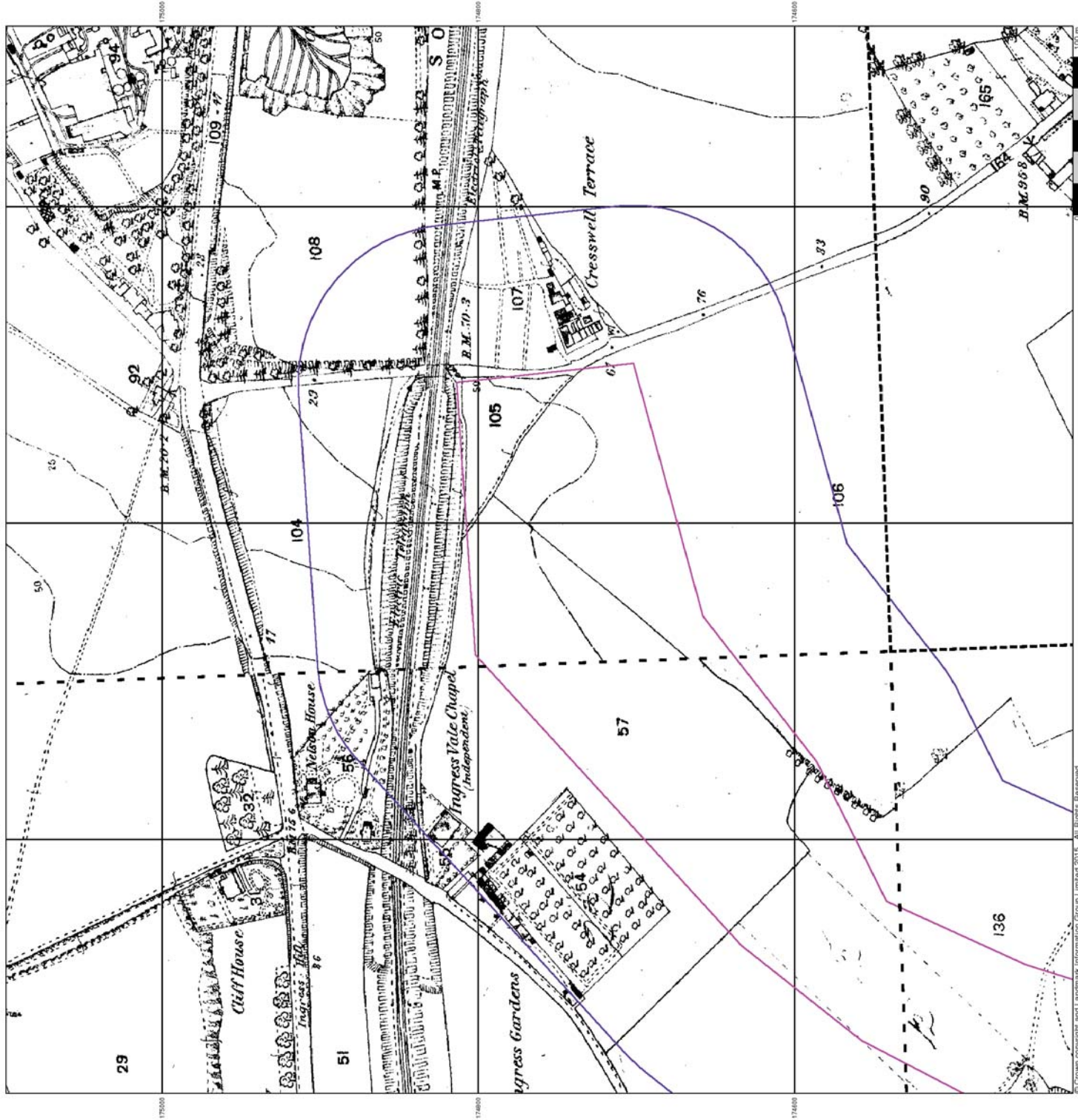


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

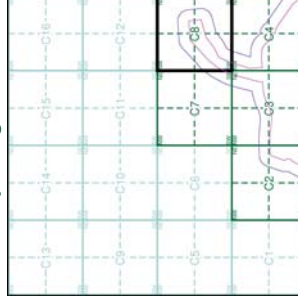


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840s. In 1854, the Ordnance Survey was created by an Act of Parliament, and the maps were then transferred to the Ordnance Survey. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

090.04	010.01
1897	1898
1:2,500	1:2,500
009.00	010.05
1897	1897
1:2,500	1:2,500

Historical Map - Segment C8

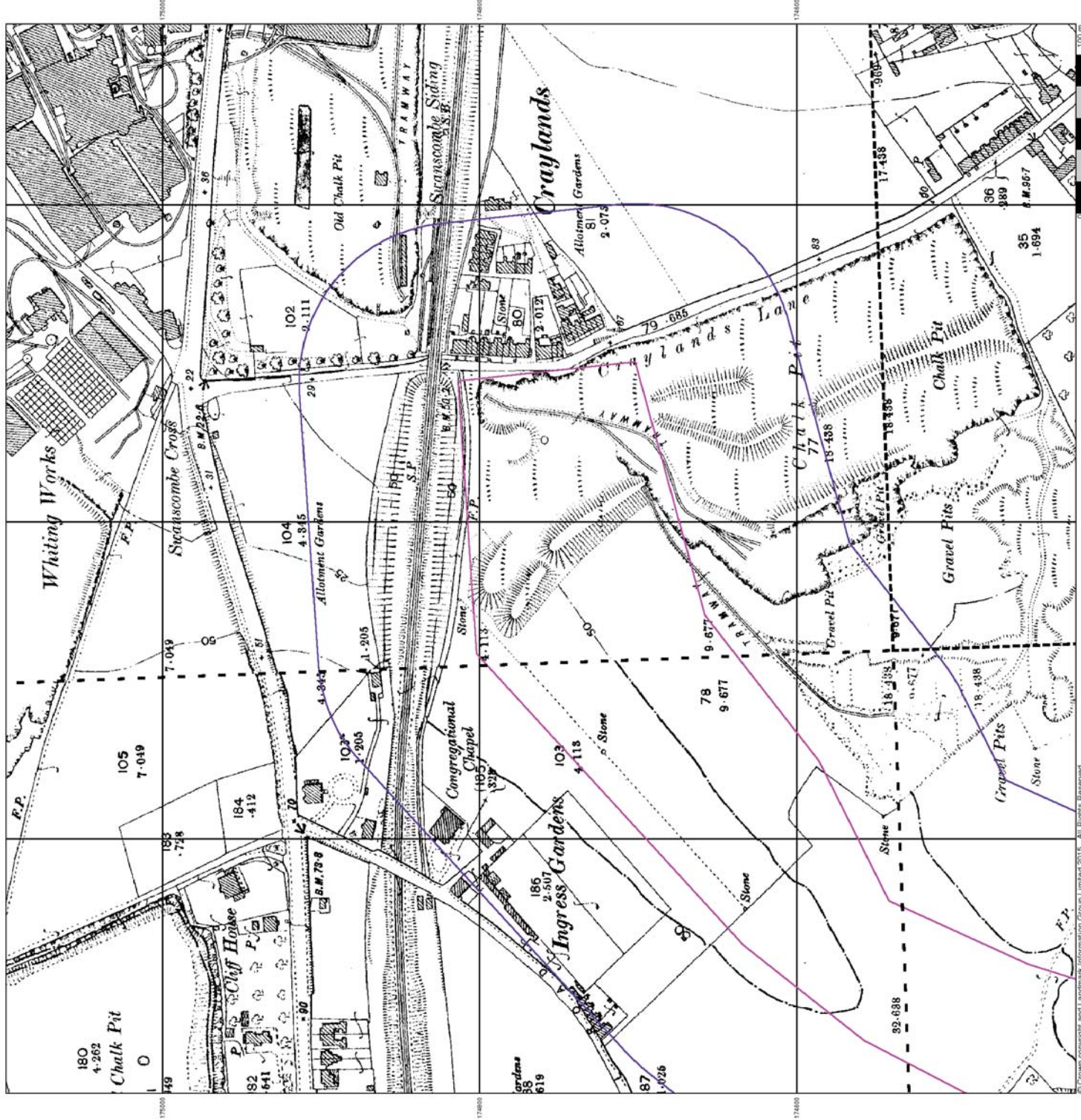


Order Details

Order Number: 8930408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

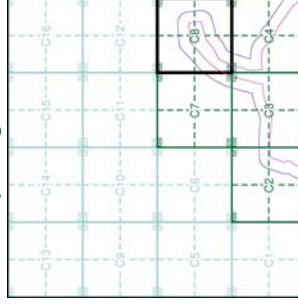


The historical maps shown are reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854, the 1:2,500 scale maps were replaced by the 1:62,500 scale maps. The 1:62,500 scale maps were replaced by the 1:25,000 scale maps in 1986. It is noted that the whole of what was compared to be the delineated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

090.04	010.01
1905	1905
1:2,500	1:2,500
009.08	010.05
1909	1909
1:2,500	1:2,500

Historical Map - Segment C8

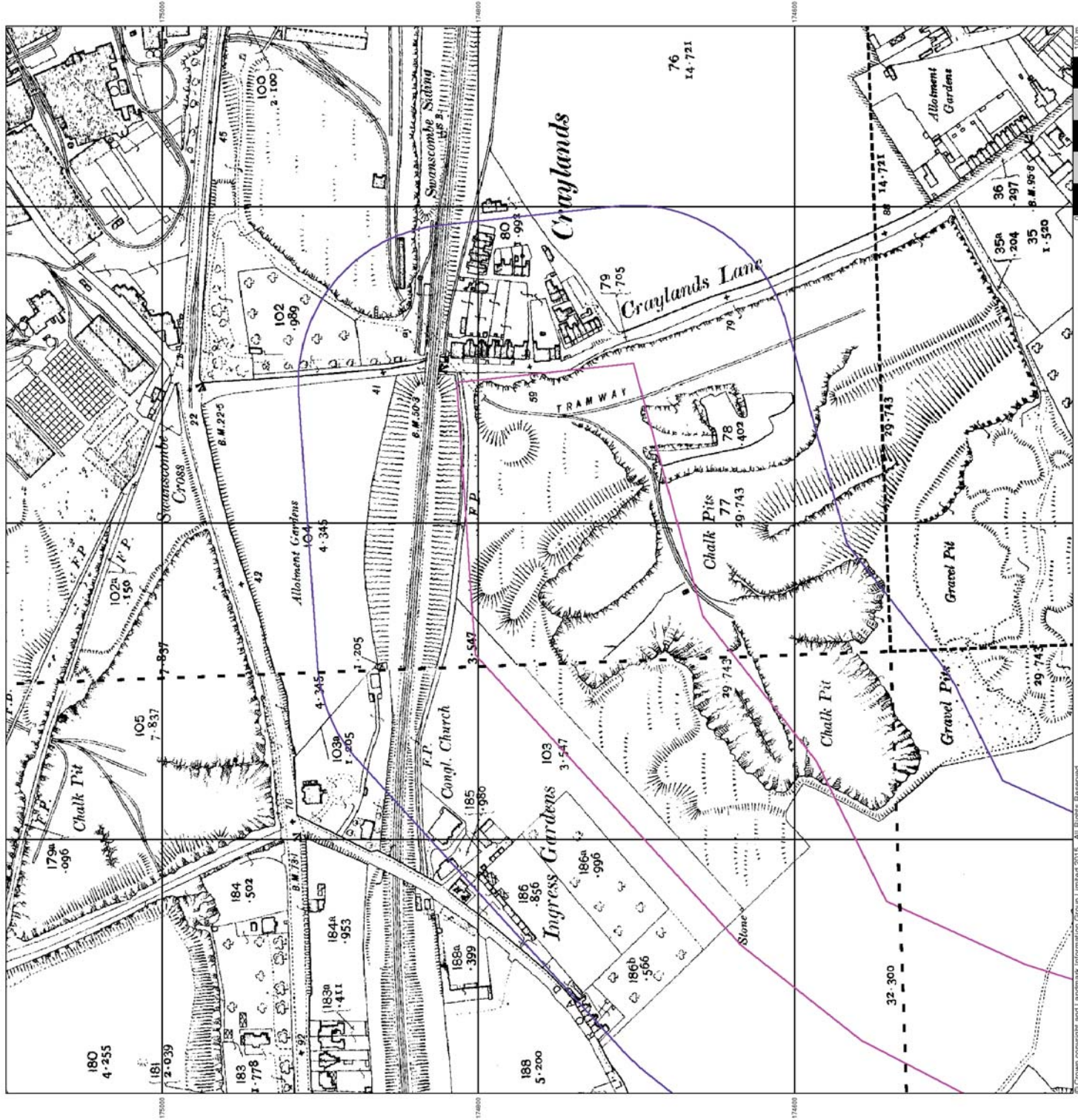


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

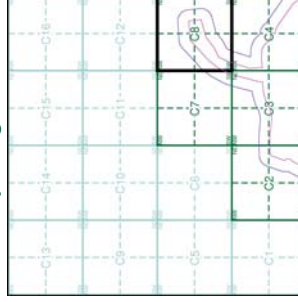


The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. It is 1854 the first map of the area was published, and the second map was published in 1884. The whole of what was then considered to be the unutilised parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

000.04	1938	1:2,500
010.01	1939	1:2,500
000.00	1938	1:2,500
010.05	1939	1:2,500

Historical Map - Segment C8

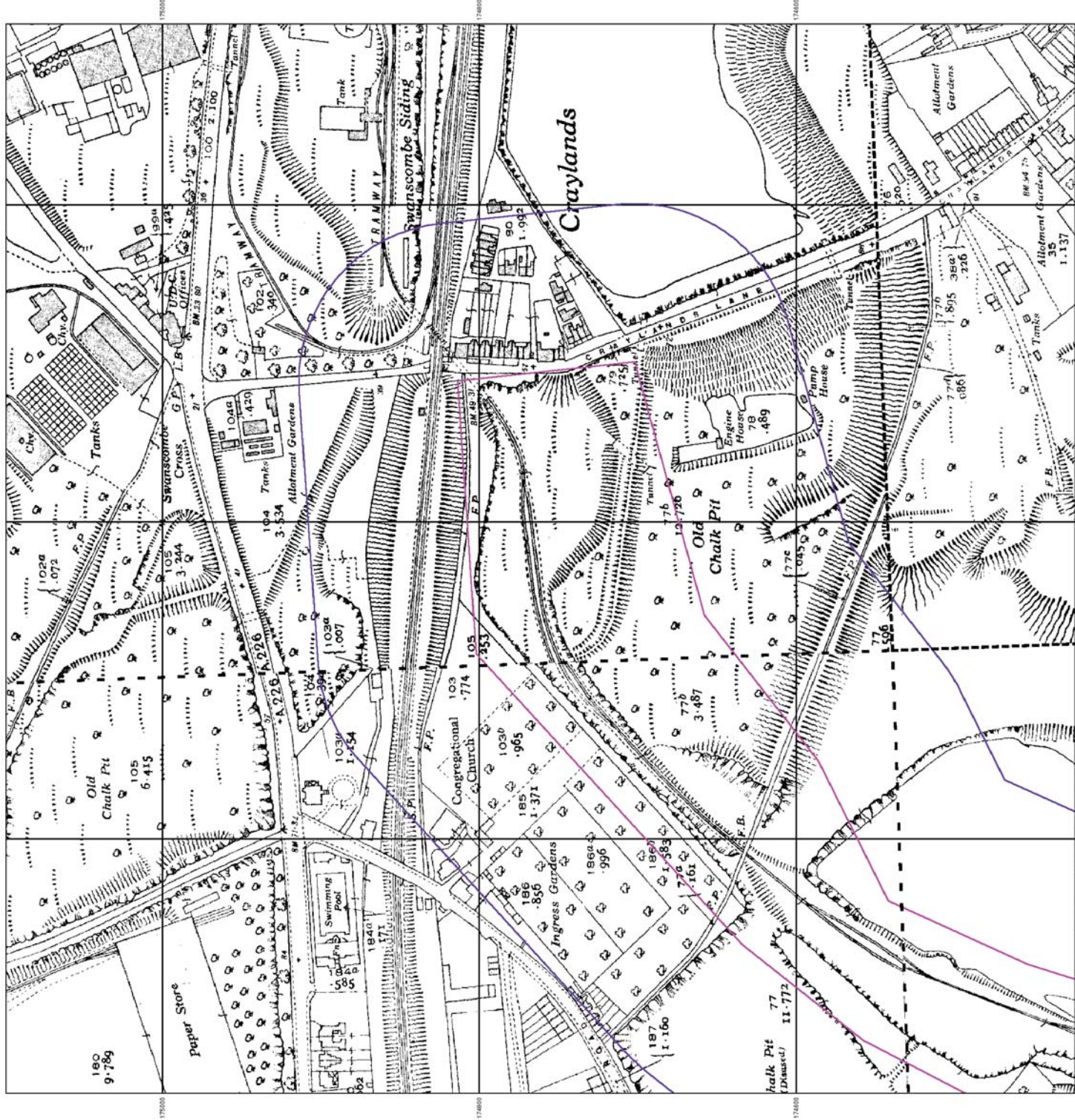


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan Published 1953

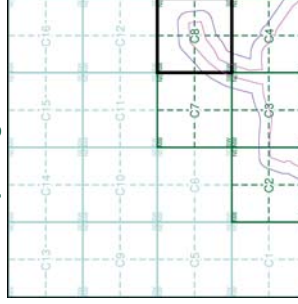
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at 1:25,000 scale for England, Wales and Scotland in the 1940s. 1854 was the first year that the Ordnance Survey began to publish maps at 1:25,000 scale. The maps were compiled by 1896. It covered the whole of what was considered to be the populated parts of Great Britain. The published date given below is often many years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250
TO5974SW TO5974SH TO5974SW	1953	1,250	1,250

Historical Map - Segment C8

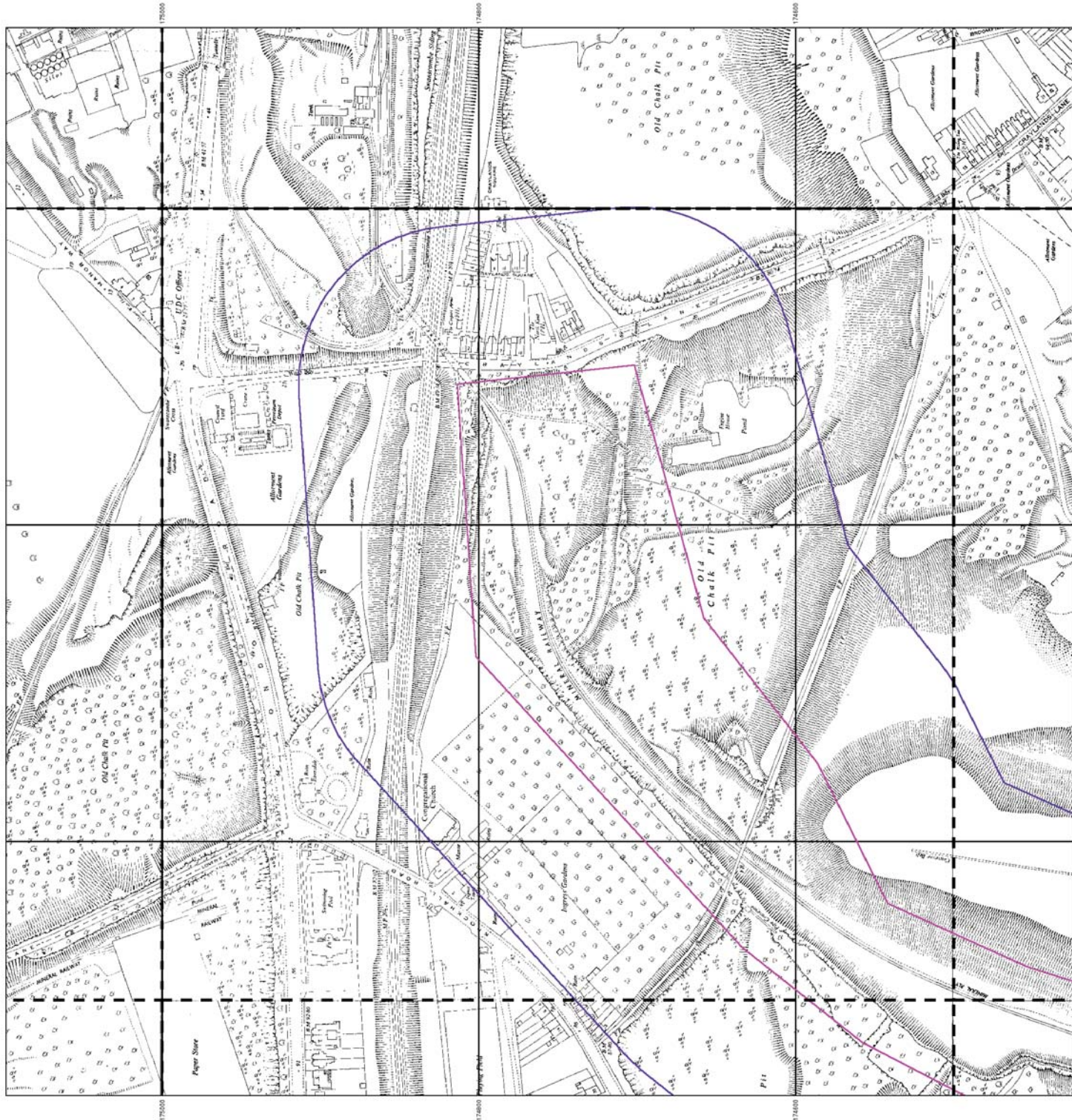


Order Details

Order Number: 8930408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Site: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan Published 1954

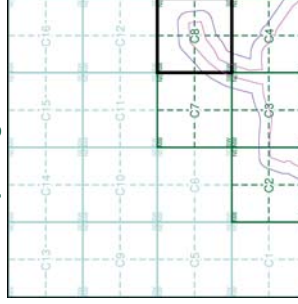
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. 1854 was the last year that the Ordnance Survey published maps at this scale. The whole of what was covered by the published parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO5975	1954	12,500
TO5975	1954	12,500
TO5974	1954	12,500
TO5974	1954	12,500

Historical Map - Segment C8

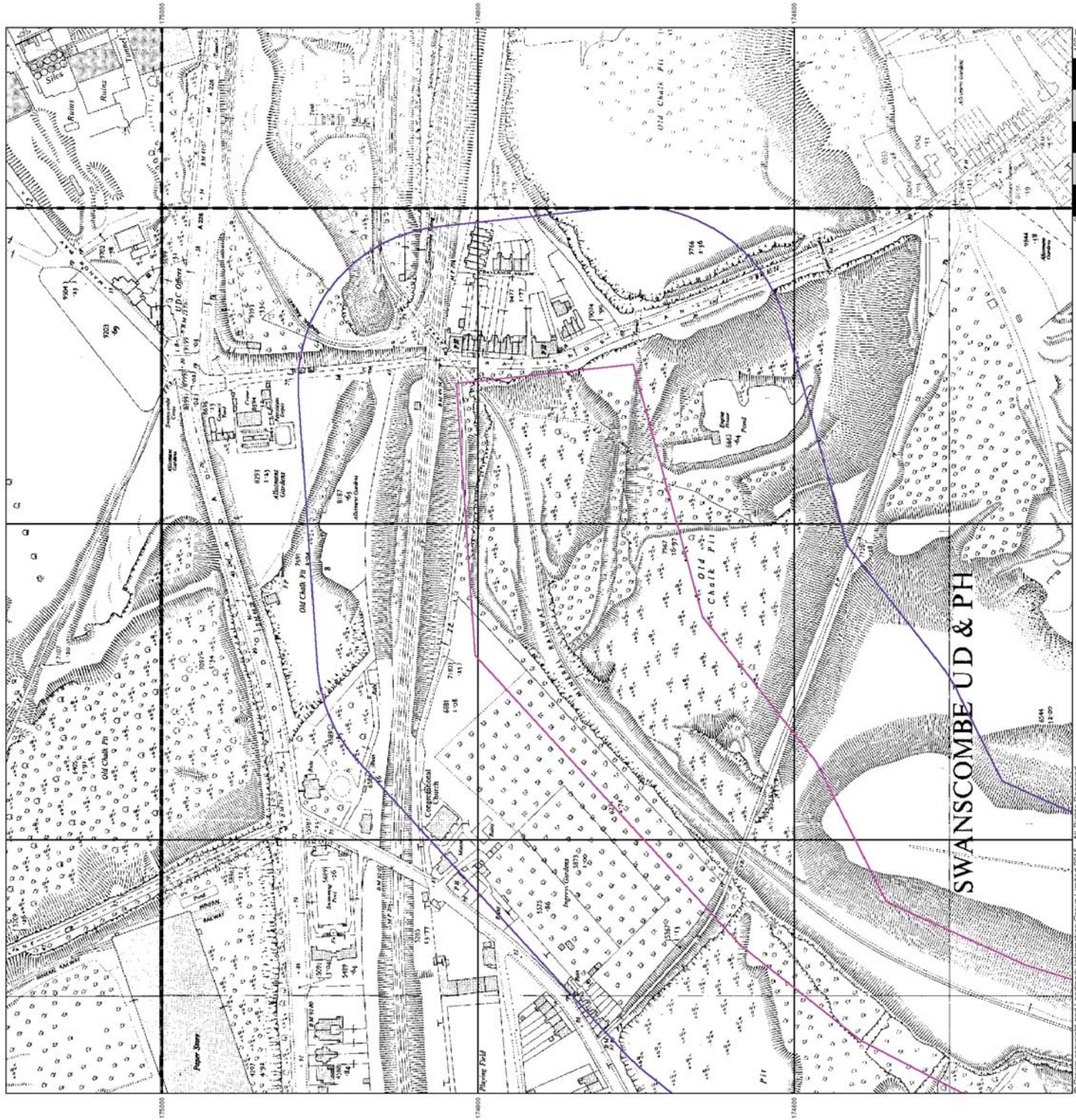


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1959 - 1972

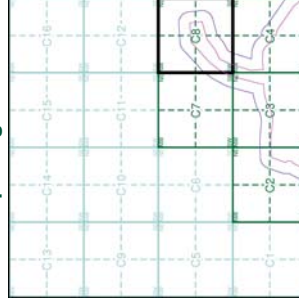
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at 1:12,500 scale for England, Wales and Scotland in the 1940s. 1854 the Ordnance Survey was transferred to the Admiralty by 1856 it covered the whole of what was considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

OS5974SW/OS5974SH/OS6074SW	1971	1971	1972
1:1,250	1:1,250	1:1,250	1:1,250
OS674NW/OS674NE/OS6074NW	1969	1969	1971
1:1,250	1:1,250	1:1,250	1:1,250
OS674SW/OS674SE/OS6074SW	1969	1969	1971
1:1,250	1:1,250	1:1,250	1:1,250

Historical Map - Segment C8

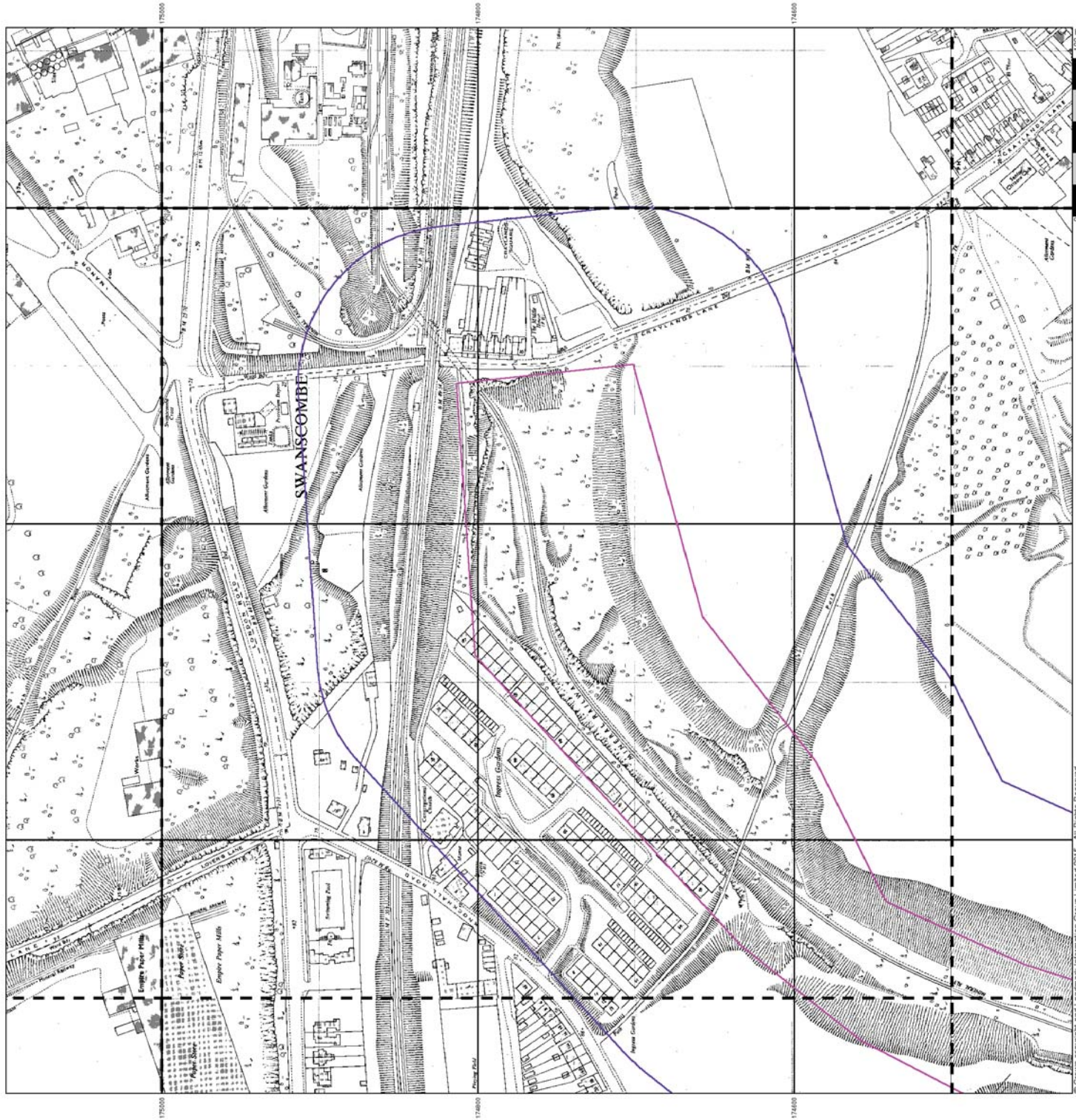


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

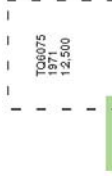
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

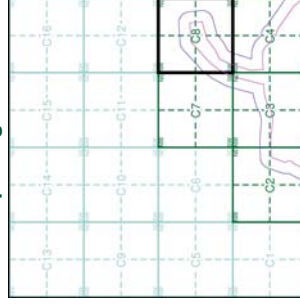


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale maps were adopted for Ireland. The maps were compiled by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C8

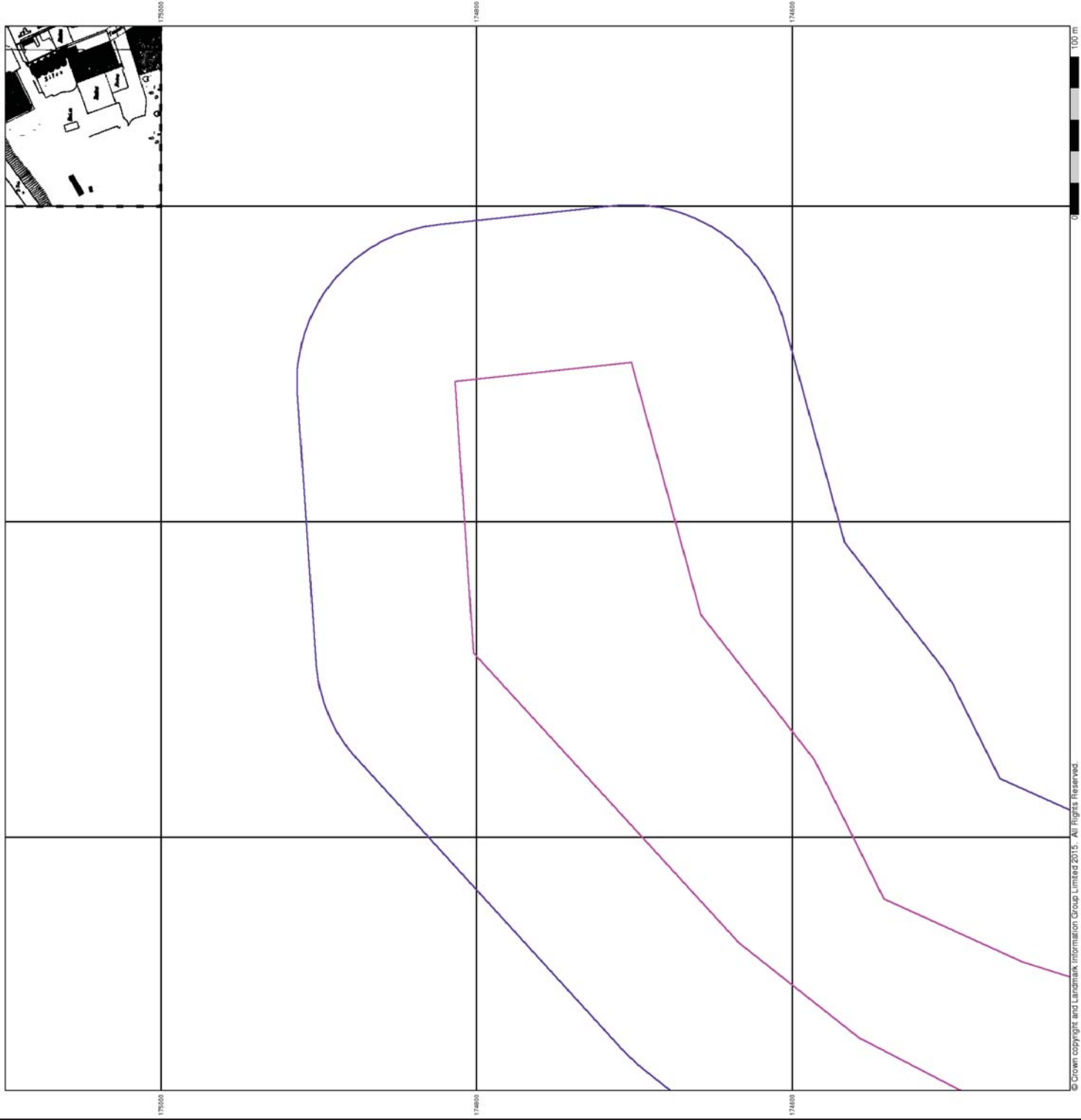


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1973 - 1975

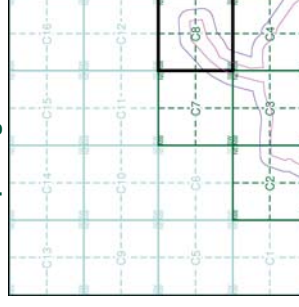
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. In 1854 the Ordnance Survey was established and by 1896 it had surveyed the whole of what was then considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment C8

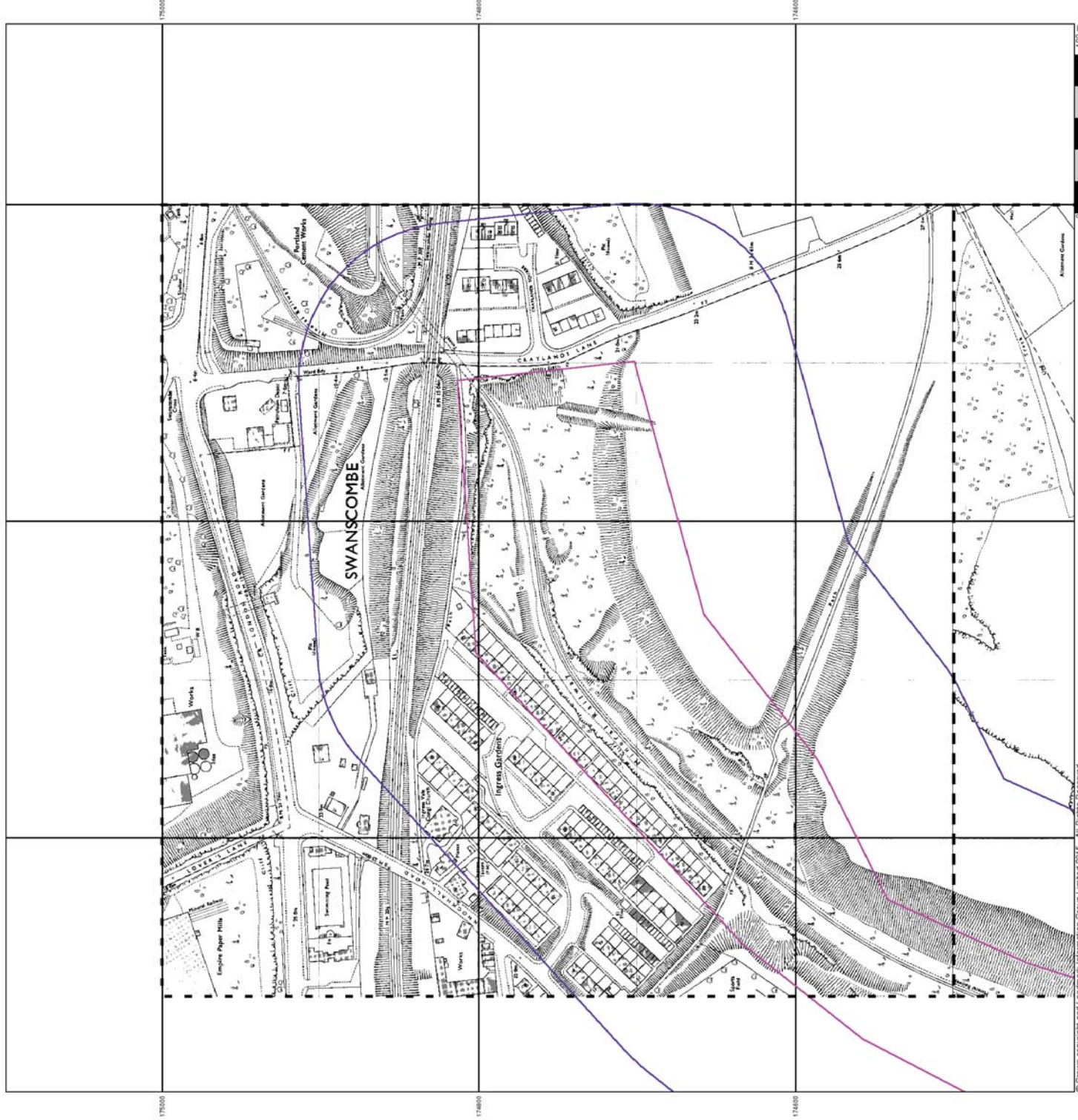


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Additional SIMs

Published 1978 - 1989

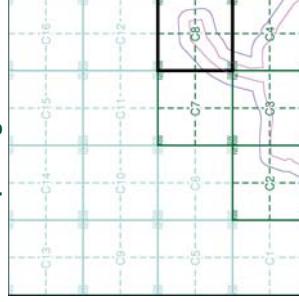
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published in 1978 to 1989. They contain information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

OS975SW/OS975SE	1979	1:1,250
OS974NW/OS974NE	1985	1:1,250
OS974S/OS974N	1978	1:1,250
OS974S/OS974N	1985	1:1,250

Historical Map - Segment C8



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Additional SIMs

Published 1983 - 1990

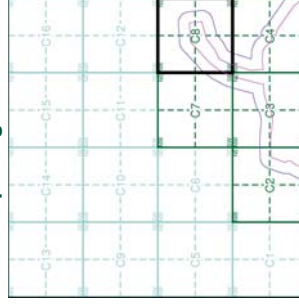
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published by the Ordnance Survey in the early 1990s. They contain information from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TC6074NW	1990	1:1,250
TC6074SW	1990	1:1,250

Historical Map - Segment C8



Order Details

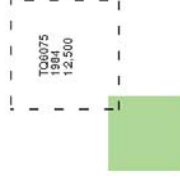
Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

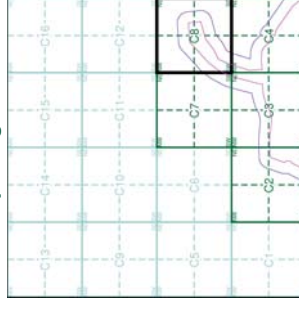
Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Map Name(s) and Date(s)



Historical Map - Segment C8

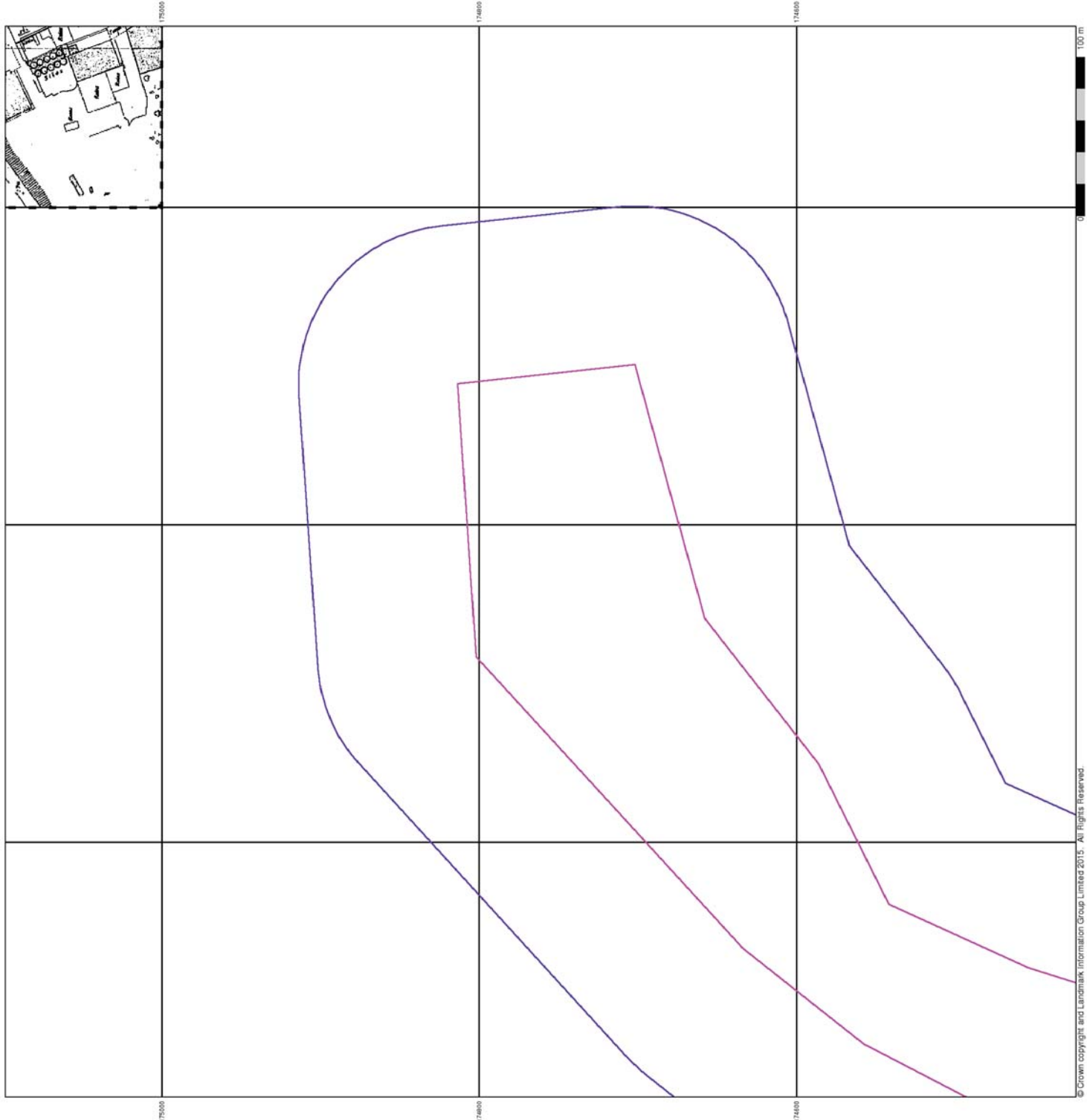


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 559070, 174590
 Slice: C
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



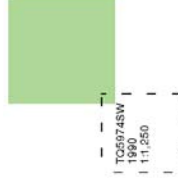
Additional SIMs

Published 1990

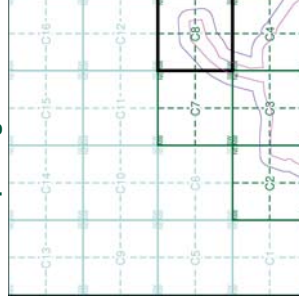
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1940s and 1950s. They contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment C8

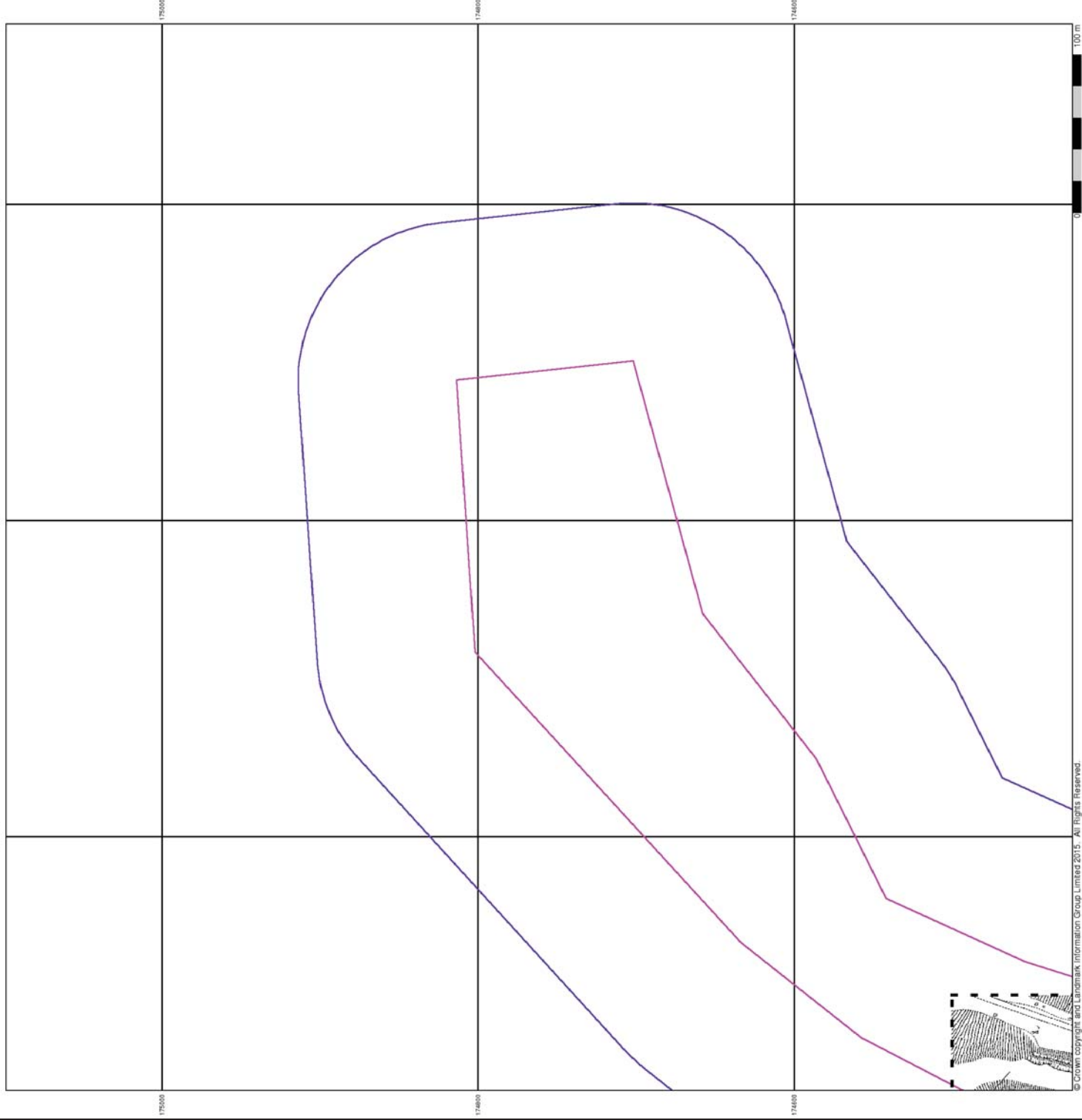


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Large-Scale National Grid Data Published 1992

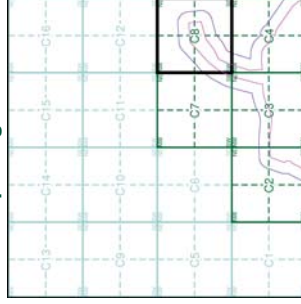
Source map scale - 1:1,250

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps are the original mapping on which the Large Scale National Grid Data is based, and are published at a scale of 1:1,250. They provide detailed information on the topography of the area, including contour lines, spot heights, and other topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

OS975SW	OS975SW	OS975SW	OS975SW
1992	1992	1992	1992
1:1,250	1:1,250	1:1,250	1:1,250
OS974NW	OS974NW	OS974NW	OS974NW
1992	1992	1992	1992
1:1,250	1:1,250	1:1,250	1:1,250
OS974SW	OS974SW	OS974SW	OS974SW
1992	1992	1992	1992
1:1,250	1:1,250	1:1,250	1:1,250

Historical Map - Segment C8



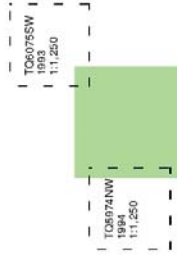
Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

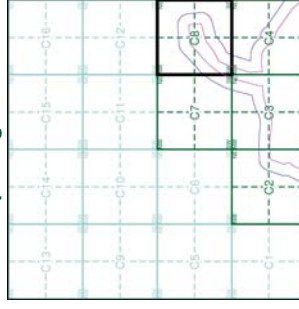
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Map Name(s) and Date(s)



Historical Map - Segment C8



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 559070, 174590
Slice: C
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

89304408_1_1

Customer Reference:

250122/00

National Grid Reference:

560830, 174470

Slice:

D

Site Area (Ha):

272.38

Search Buffer (m):

1000

Site Details:

Barton Wilmore, The Observatory
Southfleet Road
SWANSCOMBE
Kent
DA10 0DF

Client Details:

Mr P Measham
Ove Arup & Partners International Ltd
13 Fitzroy Street
London
W1T 4BQ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	25
Hazardous Substances	-
Geological	32
Industrial Land Use	39
Sensitive Land Use	49
Data Currency	50
Data Suppliers	55
Useful Contacts	56

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 4				11
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7				8
Local Authority Pollution Prevention and Control Enforcements	pg 8				1
Nearest Surface Water Feature	pg 8				Yes
Pollution Incidents to Controlled Waters	pg 8				5
Prosecutions Relating to Authorised Processes	pg 9				1
Registered Radioactive Substances	pg 9			2	
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 9				1
Water Abstractions	pg 9				23 (*29)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 22	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Source Protection Zones	pg 23	3	1	1	1
Extreme Flooding from Rivers or Sea without Defences	pg 24		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 24		Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 24		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 25		1		5
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 26		1		2
Licensed Waste Management Facilities (Locations)	pg 26			1	5
Local Authority Landfill Coverage	pg 28	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 28		1		6
Registered Waste Transfer Sites	pg 31				1
Registered Waste Treatment or Disposal Sites	pg 31				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 32	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 32		2	8	12
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 35			1	2
Non Coal Mining Areas of Great Britain	pg 36	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 36	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 36		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 36	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 37	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 37	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 38	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 38	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 39		4	11	88
Fuel Station Entries	pg 48				1
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves	pg 49				1
National Nature Reserves	pg 49		1		
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 49	1			
Ramsar Sites					
Sites of Special Scientific Interest	pg 49		1	1	
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559900 174750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	559950 174800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559750 174700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	559850 174700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	559450 174350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	559450 174450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	0	1	559500 174450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	559600 173100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	559750 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	560200 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	560250 173250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	0	1	560000 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(S)	0	1	560400 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559500 174474
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	559550 174474
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	560300 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	1	560450 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559500 174400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	559750 173300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	559700 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	559700 173150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	559700 173250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	559750 173250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	559800 173300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	559850 173250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	1	560350 173250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559850 174750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559700 174650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559650 174600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559550 174550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	559600 174550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	559550 174500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	560000 174474
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D6SW (S)	0	1	560833 174450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	7	1	559650 174750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	46	1	559750 174850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NW)	72	1	560000 174850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	87	1	560000 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	88	1	559950 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	96	1	559750 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	100	1	559700 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	106	1	560000 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D5NW (NW)	117	1	560400 174850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D5NW (NW)	141	1	560150 174900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	163	1	559650 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	176	1	560100 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	187	1	560000 175050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	189	1	559600 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	193	1	560000 175150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	197	1	560000 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	199	1	559700 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	217	1	560100 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	219	1	559500 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	222	1	559550 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	231	1	559600 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	246	1	559750 175050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D5NW (NW)	252	1	560250 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	253	1	559450 174900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	258	1	559650 175050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D5NE (N)	262	1	560700 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	290	1	559450 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	293	1	559500 175000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	296	1	561350 173300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	333	1	561400 173350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D5NW (NW)	340	1	560450 174950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D6SE (E)	351	1	561200 174474

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D5NW (NW)	358	1	560400 174800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D2SE (SE)	367	1	561400 174050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	396	1	559750 175200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D9SW (NW)	419	1	560150 175200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D2SE (SE)	423	1	561400 173900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D6SW (NE)	443	1	561050 174600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	491	1	561600 173400
1	Discharge Consents Operator: Southern Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Swanscombe Ceo Manor Way Wps Swanscombe Kent Da10 0pp Authority: Environment Agency, Thames Region Catchment Area: Thames Estuary Reference: Casm.1390 Permit Version: 1 Effective Date: 1st November 2006 Issued Date: 4th May 2006 Revocation Date: 13th July 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Tributary Of Thames Estuary Receiving Water: Tributary Of Thames Estuary Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	D9SW (NW)	603	2	560120 175370
1	Discharge Consents Operator: Southern Water Services Ltd. Property Type: Sewerage Network - Pumping Station - Water Company Location: Swanscombe Wastewater Pumping, Station, Swanscombe Marshes, Kent Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: A00831 Permit Version: 1 Effective Date: 11th August 1998 Issued Date: 11th August 1998 Revocation Date: 28th January 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Saline Estuary Receiving Water: Saline Estuary Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	D9SW (NW)	621	2	560120 175390
2	Discharge Consents Operator: Mr P Thornton Property Type: Industrial Parks & Estates Location: P15 Kent Kraft Industrial Estate, Lower Road, Northfleet, Kent Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P07708 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Into Land Receiving Water: Into Land Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 100m	D5NE (NW)	639	2	560500 175000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: MR P THORNTON Property Type: Industrial Parks & Estates Location: P15 KENT KRAFT INDUSTRIAL ESTATE, LOWER ROAD, NORTHFLEET, KENT Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P07708 Permit Version: 1 Effective Date: 14th September 1999 Issued Date: 14th September 1999 Revocation Date: 20th December 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Into Land Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	D5NE (NW)	639	2	560500 175000
3	Discharge Consents Operator: Southern Water Services Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: Swanscombe Pumping Station, Manor Way, Northfleet, Kent, Da10 0eg Authority: Environment Agency, Southern Region Catchment Area: Medway Estuary Reference: Npswqd001831 Permit Version: 1 Effective Date: 31st March 2010 Issued Date: 6th November 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Unnamed Trib Of River Thames Receiving Water: Unnamed Trib Of River Thames Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	D9SW (NW)	686	2	560400 175270
4	Discharge Consents Operator: L.S. Eastern Quarry Limited Property Type: Extraction Of Stone, Gravel Etc. Location: Northfleet Eastern/Western Quarry A2 Watling Street, Bean, Nr Dartford, Kent, Sa10 0pp Authority: Environment Agency, Southern Region Catchment Area: Darent (NIRS) Reference: P04659 Permit Version: 2 Effective Date: 17th April 2000 Issued Date: 17th April 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Mineral Workings Discharge: Freshwater Stream/River Environment: Unnamed Drain To R Ebbsfleet Receiving Water: Unnamed Drain To R Ebbsfleet Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	D9SE (NW)	757	2	560520 175230
4	Discharge Consents Operator: Lafarge Cement Uk Property Type: Extraction Of Stone, Gravel Etc. Location: Northfleet Eastern/Western Quarry A2 Watling Street, Bean, Nr Dartford, Kent, Sa10 0pp Authority: Environment Agency, Southern Region Catchment Area: Old-unknown river Reference: P04659 Permit Version: 1 Effective Date: 6th October 1993 Issued Date: 6th October 1993 Revocation Date: 16th April 2000 Discharge Type: Trade Discharge - Mineral Workings Discharge: Freshwater Stream/River Environment: Unnamed Drain To R Ebbsfleet Receiving Water: Unnamed Drain To R Ebbsfleet Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	D9SE (NW)	757	2	560520 175230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Hochtief (Uk) Construction Ltd Property Type: Industrial Parks & Estates Location: Hochtief Norwest Holst, Joint Venture, Bci Access Road, Northfleet, Kent Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P10726 Permit Version: 1 Effective Date: 29th May 2002 Issued Date: 29th May 2002 Revocation Date: 1st August 2005 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	D3SW (SE)	765	2	561750 173880
5	Discharge Consents Operator: L.S. Eastern Quarry Limited Property Type: Extraction Of Stone, Gravel Etc. Location: Northfleet Eastern Quarry A2 Watling Street, Bean, Nr Dartford, Kent Authority: Environment Agency, Southern Region Catchment Area: Darent (NIRS) Reference: P04660 Permit Version: 1 Effective Date: 6th October 1993 Issued Date: 6th October 1993 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Mineral Workings Discharge: Freshwater Stream/River Environment: Receiving Water: The River Darent Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	D3SW (SE)	766	2	561760 173850
5	Discharge Consents Operator: Jayflex Construction Ltd Property Type: Industrial Waste Landfills Location: Bakers Hole Landfill, Northfleet, Kent Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09808 Permit Version: 1 Effective Date: 1st May 2001 Issued Date: 1st May 2001 Revocation Date: 5th September 2003 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	D3SW (SE)	768	2	561750 173890
6	Discharge Consents Operator: Lafarge Cement Uk Plc Property Type: Manufacture Of Cement, Lime Plaster Location: Ebbsfleet Lafarge Cement Uk, The Shore, Northfleet, Kent, Da11 9an Authority: Environment Agency, Southern Region Catchment Area: Darent (NIRS) Reference: P04661 Permit Version: 1 Effective Date: 6th October 1993 Issued Date: 6th October 1993 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Mineral Workings Discharge: Freshwater Stream/River Environment: Receiving Water: The Ebbsfleet Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	D3NW (SE)	787	2	561700 174100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Local Authority Pollution Prevention and Controls Name: Lancebox Ltd Location: Office Block F, Manor Way Business Park, Manor Way, Swanscombe, DA10 0PP Authority: Dartford Borough Council, Environmental Health Department Permit Reference: EP/CC/002 Dated: 19th September 2008 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	D5NE (NW)	681	3	560561 174917
8	Local Authority Pollution Prevention and Controls Name: D.S.R Location: Unit 17 Northfleet Industrial Estate, Lower Road, GRAVESEND, Kent, DA11 9SR Authority: Dartford Borough Council, Environmental Health Department Permit Reference: B/03/02/Rev Dated: 3rd July 2002 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorised Positional Accuracy: Manually positioned within the geographical locality	D5NE (NW)	720	3	560580 175014
9	Local Authority Pollution Prevention and Controls Name: Swanscombe Dry Cleaners Location: 2 The Parade, High Street, Swanscombe, DA10 0AJ Authority: Dartford Borough Council, Environmental Health Department Permit Reference: EP/DC/010 Dated: 19th December 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Located by supplier to within 10m	D5SE (W)	739	3	560619 174529
10	Local Authority Pollution Prevention and Controls Name: Swanscombe Dry Cleaners Location: 47 High Street, Swanscombe, DA10 Authority: Dartford Borough Council, Environmental Health Department Permit Reference: P/64 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	D5SE (NW)	743	3	560637 174607
11	Local Authority Pollution Prevention and Controls Name: South East Recycling Ltd Location: D1 Kent Kraft Industrial Estate, Lower Road, Northfleet, GRAVESEND, Kent, DA11 9SR Authority: Dartford Borough Council, Environmental Health Department Permit Reference: B/23/99/Rev1 Dated: 26th May 1999 Process Type: Local Authority Air Pollution Control Description: PG3/16 Mobile screening and crushing processes Status: Site Closed Positional Accuracy: Manually positioned to the address or location	D5NE (N)	835	3	560717 174916
12	Local Authority Pollution Prevention and Controls Name: Lancebox Ltd Location: Office Block F, Manor Way Business Park, Swanscombe, DA10 Authority: Dartford Borough Council, Environmental Health Department Permit Reference: P/56/05/orig Dated: 7th November 2005 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	D5NE (N)	838	3	560700 175022
13	Local Authority Pollution Prevention and Controls Name: Hidsons Ltd Location: Oakwood Industrial Estate, Thamesway, Northfleet, Kent, DA11 9DT Authority: Gravesham Borough Council, Environmental Health Department Permit Reference: PP1/12/076 Dated: 1st November 2012 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	D6SE (E)	913	4	561376 174622

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Local Authority Pollution Prevention and Controls Name: Fast Pack Furniture Location: Northfleet Industrial Estate, Lower Road, GRAVESEND, Kent, DA11 9SN Authority: Dartford Borough Council, Environmental Health Department Permit Reference: B/06/02/rev1 Dated: 22nd March 1999 Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Site Closed Positional Accuracy: Manually positioned within the geographical locality	D6NW (N)	954	3	560812 175051
15	Local Authority Pollution Prevention and Control Enforcements Location: Unit D North East Industrial Estate, Lower Road, Northfleet Type: Air Pollution Control Enforcement Notice Reference: B/06/02/rev1 Date Issued: 2nd May 2002 Enforcement Date: Not Supplied Details: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	D6NW (N)	954	3	560812 175051
	Nearest Surface Water Feature	D3SW (SE)	534	-	561741 173840
16	Pollution Incidents to Controlled Waters Property Type: Manufacturing Location: Blue Circle, SWANSCOMBE Authority: Environment Agency, Southern Region Pollutant: Contaminated Water : Fire Fighting Run Off Note: Not Supplied Incident Date: 31st July 1999 Incident Reference: 3934 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Deliberate Action Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	D9SW (NW)	671	2	560350 175300
17	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: Ebbs Fleet At Entrance To, Northfleet Landfill Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Stream Is White; Construction Incident Date: 20th December 1995 Incident Reference: 395468 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	D3SW (SE)	693	2	561700 173800
18	Pollution Incidents to Controlled Waters Property Type: Agricultural Location: Bean Road, SWANSCOMBE Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Fire water / Foam Note: Fire; Other Farming Incident Date: 28th August 1995 Incident Reference: 395291 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	D9SE (NW)	724	2	560500 175200
19	Pollution Incidents to Controlled Waters Property Type: Mining Location: Ebbs Fleet, NORTHFLEET Authority: Environment Agency, Southern Region Pollutant: Oils - Diesel (Including Agricultural) Note: Oil Incident Date: 25th January 1993 Incident Reference: 92T494 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Oils/Related Products Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	D3SW (SE)	763	2	561780 173780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Rear Of 6A The Parade, SWANSCOMBE Authority: Environment Agency, Southern Region Pollutant: Chemicals - Acid Note: Leak Of Acid (5 Gallon Drum Leaking) Incident Date: 7th July 1996 Incident Reference: 396364 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	D5SE (NW)	806	2	560700 174600
21	Prosecutions Relating to Authorised Processes Location: Manor Way, Swanscombe Prosecution Text: Illegal dumping of asbestos waste - Suspended prison sentence served on waste carrier Prosecution Act: Epr10 Hearing Date: 8th February 2013 Verdict: Guilty Fine: 0 Costs: 500 Positional Accuracy: Manually positioned to the road within the address or location	D9SW (NW)	591	2	560331 175205
22	Registered Radioactive Substances Name: Sirs Navigation Ltd Location: SIRS NAVIGATION LTD, 186 Milton Road, SWANSCOMBE, Kent, DA10 0LX Authority: Environment Agency, Southern Region Permit Reference: Bv6889 Dated: 23rd October 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	D5SW (W)	372	2	560189 174467
22	Registered Radioactive Substances Name: Sirs Navigation Ltd Location: 186 Milton Road, SWANSCOMBE, Kent, DA10 0LX Authority: Environment Agency, Southern Region Permit Reference: AK1355 Dated: 18th January 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	D5SW (W)	375	2	560189 174462
23	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Kent and East Sussex Incident Date: 8th January 2007 Incident Reference: 460494 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	D9SW (NW)	630	2	560358 175234
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 3382 Yearly Rate (m3): 1235375.5 Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
24	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point B At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D3SE (SE)	903	2	561920 173800
25	Water Abstractions Operator: Mr Willetts Licence Number: 01/153 Permit Version: 2 Location: Point A, Boreholes At Swanscombe, Kent Authority: Environment Agency, Southern Region Abstraction: Construction: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st July 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D9NE (N)	951	2	560490 175550
25	Water Abstractions Operator: Mr Willetts Licence Number: 01/153 Permit Version: 2 Location: Point A, Boreholes At Swanscombe, Kent Authority: Environment Agency, Southern Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st July 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D9NE (N)	951	2	560490 175550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Water Abstractions Operator: Mr A Tauschinger Licence Number: 01/153 Permit Version: 1 Location: Point A, Boreholes At Swanscombe, Kent Authority: Environment Agency, Southern Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D9NE (N)	951	2	560490 175550
25	Water Abstractions Operator: Mr A Tauschinger Licence Number: 01/153 Permit Version: 1 Location: Point A, Boreholes At Swanscombe, Kent Authority: Environment Agency, Southern Region Abstraction: Construction: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D9NE (N)	951	2	560490 175550
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 104 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Lafarge Cement Uk Plc Licence Number: 9/40/01/0051/Gr Permit Version: 103 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 102 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Blue Circle Industries Plc Licence Number: 9/40/01/0051/Gr Permit Version: 101 Location: Point A At Blue Lake Northfleet Cement Works Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On The Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1166	2	562210 173750
	Water Abstractions Operator: Kimberly-Clark Limited Licence Number: 9/40/01/0092/B/Gr Permit Version: 100 Location: Borehole 3, Springhead Lake, Northfleet. Authority: Environment Agency, Southern Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Shown Coloured Blue On Licence Map. Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 1st July 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (SE)	1214	2	562260 173750
	Water Abstractions Operator: Cemex Uk Materials Ltd Licence Number: 01/158 Permit Version: 1 Location: A Borehole At Swanscombe Marshes Authority: Environment Agency, Southern Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Boldly Outlined On Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D14SW (N)	1547	2	560970 175920
	Water Abstractions Operator: Cemex Uk Materials Ltd Licence Number: 01/158/R01 Permit Version: 1 Location: Borehole At Swanscombe Marshes Authority: Environment Agency, Southern Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Northfleet Wharf, Botany Marshes, Northfleet Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D14SW (N)	1567	2	560976 175941

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Robert Brett & Sons Ltd Licence Number: 9/40/01/0522/S Permit Version: 101 Location: Point A, Tidal River Thames At Swanscombe. Authority: Environment Agency, Southern Region Abstraction: Construction: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D11SE (NE)	1578	2	561870 175100
	Water Abstractions Operator: Aylett Gravel Ltd. Licence Number: 9/40/01/0522/S Permit Version: 100 Location: Point A, Tidal River Thames At Swanscombe. Authority: Environment Agency, Southern Region Abstraction: Construction: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D11SE (NE)	1578	2	561870 175100
	Water Abstractions Operator: Kimberly-Clark Limited Licence Number: 9/40/01/0092/A/Gr Permit Version: 101 Location: Point B, Borehole At Kimberly Clark, Northfleet Authority: Environment Agency, Southern Region Abstraction: Paper and Printing: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th April 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4NE (E)	1810	2	562770 174120
	Water Abstractions Operator: Kimberly-Clark Limited Licence Number: 9/40/01/0092/A/Gr Permit Version: 100 Location: Point 2, Greensand Borehole, Northfleet. Authority: Environment Agency, Southern Region Abstraction: Paper and Printing: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Shown Coloured Blue On Licence Map. Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 27th May 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1867	2	562830 174120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Cemex Uk Operations Ltd Licence Number: 01/167 Permit Version: 2 Location: Northfleet Wharf Authority: Environment Agency, Southern Region Abstraction: Construction: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 7th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D14SE (N)	1945	2	561370 176074
	Water Abstractions Operator: Cemex Uk Operations Ltd Licence Number: 01/167 Permit Version: 1 Location: Northfleet Wharf Authority: Environment Agency, Southern Region Abstraction: Construction: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 25th April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D14SE (N)	1947	2	561350 176100
	Water Abstractions Operator: Kimberly-Clark Limited Licence Number: 9/40/01/0092/A/Gr Permit Version: 101 Location: Point A, Borehole At Kimberly Clark, Northfleet Authority: Environment Agency, Southern Region Abstraction: Paper and Printing: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th April 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D8SE (E)	1954	2	562760 174590
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	(SW)	0	2	559678 173891
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	D2SW (S)	0	2	560877 173879
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	D6SW (S)	0	2	560833 174474
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	(S)	0	2	560714 173509
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	D1NE (SW)	0	2	560628 174184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	(W)	0	1	560000 174474
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	D6SW (S)	0	1	560833 174474
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	(S)	0	1	560644 173594
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(W)	0	1	560000 174327
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	D1NE (SW)	0	1	560653 174179
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	D6SW (E)	0	1	561081 174548
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(S)	0	1	560826 173411
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	D2SW (S)	0	1	560990 173847
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(SW)	0	1	559965 173881
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(W)	0	1	559534 174643
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(NW)	0	1	559884 174892
26	Source Protection Zones Name: Swanscombe Source: Environment Agency, Head Office Reference: Su166 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	(SW)	0	2	559480 173364
27	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	D6SW (E)	0	2	561118 174526
28	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	D6SW (S)	0	2	560833 174474
29	Source Protection Zones Name: Borehole Point F, (Epm) Southfleet Source: Environment Agency, Head Office Reference: Su460 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	(S)	85	2	561165 173418
30	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	D3NW (SE)	459	2	561475 174090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Source Protection Zones Name: Portland Pitlake Quarry Source: Environment Agency, Head Office Reference: Su163 Type: Groundwater Source	D3SE (SE)	896	2	561910 173810
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	D5NW (NW)	142	2	560448 174948
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	D6NW (N)	147	2	560953 174863
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	D6SE (E)	142	2	561183 174508
	Flood Water Storage Areas None				
	Flood Defences None				
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Southfleet Name: Southfleet Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19844 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: GR19	D2SW (S)	8	2	561005 173770
33	Historical Landfill Sites Licence Holder: D.R.G. Location: Stanhope Road, Swanscombe Kent Name: Bamber Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19286 First Input Date: 31st December 1977 Last Input Date: 16th April 1993 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7590 BGS Ref: Not Supplied Other Ref: P/01/16, 21ER	D6SW (S)	531	2	560833 174474
34	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Swanscombe Marsh, Swanscombe, Kent Name: Southpit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19262 First Input Date: 31st December 1977 Last Input Date: 31st December 1992 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7595 BGS Ref: Not Supplied Other Ref: P/01/11A, 21EY	D9SE (N)	677	2	560601 175225
35	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Swanscombe Marsh, Swanscombe, Kent Name: Southpit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19265 First Input Date: 31st December 1977 Last Input Date: 31st December 1992 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7595 BGS Ref: Not Supplied Other Ref: P/01/11A, 21EY	D9SW (NW)	692	2	560358 175390
36	Historical Landfill Sites Licence Holder: DRG Location: Northfleet, Kent Name: Bamber Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19279 First Input Date: 5th April 1978 Last Input Date: 30th December 1989 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: P/01/16, 21ES	D6SW (N)	920	2	560890 174761

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	Historical Landfill Sites Licence Holder: Blue Circle Industries Plc Location: Swanscombe Marsh, Swanscombe, Kent Name: Southpit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19261 First Input Date: 31st December 1977 Last Input Date: 31st December 1992 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7595 BGS Ref: Not Supplied Other Ref: 21EY, P/01/11A	D9NW (NW)	923	2	560254 175750
38	Licensed Waste Management Facilities (Landfill Boundaries) Name: Northfleet Landfill Licence Number: 19375 Location: Northfleet Landfill, Bakers Hole, Northfleet, Kent, DA11 8HF Licence Holder: Tarmac Cement And Lime Limited Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Modified Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	D2NW (SE)	22	2	560914 174367
39	Licensed Waste Management Facilities (Landfill Boundaries) Name: South Pit And Surge Pile Licence Number: 19373 Location: South Pit And Surge Pile, Swanscombe Marsh, Swanscombe, Kent, DA10 0LL Licence Holder: Tarmac Cement And Lime Limited Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Modified Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	D9SE (N)	634	2	560632 175218
40	Licensed Waste Management Facilities (Landfill Boundaries) Name: Bamber Quarry Landfill Licence Number: 19374 Location: Bamber Pit, Swanscombe High Street, Swanscombe, Kent, DA10 0AN Licence Holder: London Resort Company Holdings Limited Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Transferred Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	D6SW (N)	738	2	560817 174561
41	Licensed Waste Management Facilities (Locations) Licence Number: 19375 Location: Northfleet Landfill, Bakers Hole, Northfleet, Kent, DA11 8HF Operator Name: Tarmac Cement And Lime Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Modified Issued: 16th November 1983 Last Modified: 19th October 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	D2NW (SE)	498	2	561000 174300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	Licensed Waste Management Facilities (Locations) Licence Number: 401982 Location: Manor Way Materials Recovery Facility, Manor Way, Swanscombe, Kent, DA10 0PP Operator Name: Sheerness Recycling Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Physical Treatment Facilities Licence Status: Issued Issued: 12th March 2015 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	D5NW (NW)	505	2	560333 175053
43	Licensed Waste Management Facilities (Locations) Licence Number: 19378 Location: Plot 15 Manor Business Park, Manor Way, Swanscombe, Kent, DA10 0PP Operator Name: Crossways Recycling Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Modified Issued: 25th May 1993 Last Modified: 24th October 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	D5NE (NW)	639	2	560500 175000
44	Licensed Waste Management Facilities (Locations) Licence Number: 10095 Location: 16 Manor Way Business Park Manor Way , Swanscombe, Kent, DA10 0PP Operator Name: Mr Robert Arnold, Mrs Ruth Arnold & Mr Henry Arnold Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Modified Issued: 24th November 2004 Last Modified: 23rd July 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	D5NE (NW)	682	2	560521 175069
45	Licensed Waste Management Facilities (Locations) Licence Number: 104168 Location: Manor Way Business Park, Manor Way, Swanscombe, Kent, DA10 0LQ Operator Name: Lancebox Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Inert & excavation Waste TS + treatment Licence Status: Issued Issued: 18th June 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	D5NE (NW)	700	2	560580 174920

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	Licensed Waste Management Facilities (Locations) Licence Number: 19374 Location: Bamber Pit, Swanscombe High Street, Swanscombe, Kent, DA10 0AN Operator Name: London Resort Company Holdings Limited Operator Location: Not Supplied Authority: Environment Agency - Southern Region, Kent Area Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Transferred Issued: 1st January 1981 Last Modified: 12th December 2011 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	D6SW (NE)	800	2	560900 174600
	Local Authority Landfill Coverage Name: Dartford Borough Council - Has no landfill data to supply		0	3	560833 174474
	Local Authority Landfill Coverage Name: Kent County Council - Had landfill data but passed it to the relevant environment agency		0	5	560833 174474
	Local Authority Landfill Coverage Name: Gravesham Borough Council - Has no landfill data to supply		555	6	561267 174555
47	Registered Landfill Sites Licence Holder: Blue Circle Landfill Division Licence Reference: P/01/36 Site Location: Northfleet Landfill Extension, East Of Southfleet Road, Swanscombe, Kent Licence Easting: 561500 Licence Northing: 173500 Operator Location: Blue Circle House, Holborough, SNODLAND, Kent, ME6 5PH Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site not yet started Dated: 6th October 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Accuracy: Not Applicable Authorised Waste: Kent Cat. A -Inert * Kent Cat. B -Semi-Inert * Kent Cat. C -Putres.Or Diff. * Prohibited Waste: Car Fragmentiser Waste Contaminated Material/Rubble Contaminated Soil Hospital Wastes Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S.	(SE)	170	2	561360 173707

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	Registered Landfill Sites Licence Holder: Blue Circle Industries Plc Licence Reference: P/01/26 Site Location: Bakers Hole, Northfleet, Gravesend, Kent Licence Easting: 561000 Licence Northing: 174400 Operator Location: Aldermaston Court, Church Road, ALDERMASTON, Berkshire, RG7 4HP Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 14th August 2000 Preceded By: P/01/26 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Contaminated Soils (As In Kent Cat.C) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) = Kent Cat.A Prohibited Waste: Degradable Household/Commercial/Industrial Waste (As In Post'98 E.A.Lics And Equivalent To 22.09.00) Liquid Wastes Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00) Other Waste/Waste Not Otherwise Specified Powders Or Waste Likely To Produce Dust Sludge Wastes Special Waste (As In Epa 1990:S62 Of 1996 Regs)	D2NW (SE)	597	2	561000 174400
48	Registered Landfill Sites Licence Holder: Blue Circle Industries Plc Licence Reference: P/01/26 Site Location: Bakers Hole, Northfleet, Gravesend, Kent Licence Easting: 561000 Licence Northing: 174400 Operator Location: Portland House, Stag Place, WESTMINSTER, London, SW1E 5BJ Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 16th November 1983 Preceded By: Not Given Licence: Superseded By: P/01/26 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Civic Amenity Waste From Local Auth*Y Construction And Demolition Wastes Ind. Non-Haz. Waste Non-Haz.House.+Com.Waste	D2NW (SE)	597	2	561000 174400
49	Registered Landfill Sites Licence Holder: Blue Circle Industries Plc Licence Reference: P/01/16a Site Location: Bamber Pit, Swanscombe, Kent Licence Easting: 561000 Licence Northing: 174500 Operator Location: Portland House, Stag Place, WESTMINSTER, London, SW1E 5BJ Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 5th April 1978 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Kent Category A *	D6SW (E)	697	2	561000 174500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	Registered Landfill Sites Licence Holder: D.R.G.Bamber Disposals Licence Reference: P/01/16 Site Location: Bamber Quarry, Swanscombe, Kent Licence Easting: 560900 Licence Northing: 174650 Operator Location: c/o Evervalue Ltd, 1 Redcliffe Street, BRISTOL, Avon, BS99 7QY Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: May not be workingUnder Review Dated: 6th May 1986 Preceded By: P/01/16 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Kent Cat. A -Inert * Kent Cat. B - Slowly Degradable * Kent Cat. C -Putres.Or Diff. * Paper Mill Wastes Prohibited Waste: Asbestos/Asb.Containing Waste Cosmetic Products Non-Toxic Metal Compounds Organic Compounds Pulverised Fuel Ash Rubber & Latex (Including Tyres) Sewage Sludge Spec.Waste (Epa'90:S62/1996 Regs) Tar, Pitch, Bitumen, Asphalts	D6SW (N)	850	2	560900 174650
50	Registered Landfill Sites Licence Holder: D.R.G. Ottery Waste Paper Licence Reference: P/01/16 Site Location: Bamber Quarry, Swanscombe, Kent Licence Easting: 560900 Licence Northing: 174650 Operator Location: Factory Lane Transfer Station, CROYDON, Surrey, CR03 3RL Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Record supersededSuperseded Dated: 1st January 1981 Preceded By: Not Given Licence: Superseded By: P/01/16 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Kent Cat. B - Slowly Degradable * Kent Category A * Kent Category C * Prohibited Waste: Car Fragmentiser Scrap Non-Toxic Metal Compounds Non-Toxic Organic Compounds Pharmaceutical/Cosmetic Products Polymeric Material, Products/Scrap Pulverised Fuel Ash Scrap Rubber (Including Tyres) Sewage Tar, Pitch, Bitumen, Asphalts	D6SW (N)	850	2	560900 174650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Registered Landfill Sites Licence Holder: Blue Circle Industries Plc Licence Reference: P/01/11a Site Location: South/Surge Pile Pit, Swanscombe Marsh, Swanscombe, Kent Licence Easting: 560500 Licence Northing: 175600 Operator Location: Portland House, Stag Place, WESTMINSTER, London, SW1E 5BJ Authority: Environment Agency - Southern Region, Kent Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Operational as far as is knownOperational Dated: 14th June 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Flue Dust Ind. Non-Toxic, Inert Waste Prohibited Waste: Waste N.O.S.	D9NE (N)	996	2	560500 175600
52	Registered Waste Transfer Sites Licence Holder: South Herts Waste Management Ltd Licence Reference: P/01/31 Site Location: Plot 20 Kent Kraft Industrial Estate, Lower Road, Northfleet, GRAVESEND, Kent, DA1 9SR Operator Location: 125 Highlands Boulevard, LEIGH ON SEA, Essex, SS9 3TH Authority: Environment Agency - Southern Region, Kent Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 25th October 1993 Preceded By: Not Given Licence: Superseded By: P/01/31 Licence: Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Supplied Authorised Waste: Kent Cat. A - Non (V.Slow)-Degrading W Kent Cat. B1 - Slowly Degradable Waste Max.Waste Permitted By Licence Paper Mill 'Crudd' Prohibited Waste: Waste N.O.S.	D5NE (NW)	703	2	560550 175050
53	Registered Waste Treatment or Disposal Sites Licence Holder: South Herts Waste Management Ltd Licence Reference: P/01/31 Site Location: Plot 20 Kent Kraft Industrial Estate, Lower Road, Northfleet, GRAVESEND, Kent, DA1 9SR Operator Location: 12 Barbers Road, Stratford, London, Greater London, E15 2ph Authority: Environment Agency - Southern Region, Kent Area Site Category: Transfer - with treatment Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st April 2000 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Supplied Authorised Waste: Degradable Commercial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.02) Degradable Household Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.01) Degradable Industrial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.03) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) Maximum Cats A, B & C Waste Maximum Treatment Of Waste Permitted By Licence Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00) Other Kent Cat. B Waste - Slowly Degradable Waste Prohibited Waste: Contaminated Soil Other Waste/Waste Not Otherwise Specified Special Waste (As In Epa 1990:S62 Of 1996 Regs)	D5NE (NW)	703	2	560550 175050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thanet Sand Formation	D1NE (SW)	0	1	560565 174117
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	D6SW (S)	0	1	560833 174474
54	BGS Recorded Mineral Sites Site Name: Swanscombe Chalk Pit' Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94833 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D2SW (S)	85	1	561042 173851
55	BGS Recorded Mineral Sites Site Name: Swanscombe Quarry Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94832 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D2SW (SE)	232	1	561095 174000
56	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94829 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5SW (W)	252	1	560152 174685
57	BGS Recorded Mineral Sites Site Name: Galley Hill Portland Cement Works Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94814 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5NW (NW)	266	1	560124 174937
58	BGS Recorded Mineral Sites Site Name: Swanscombe Marl Pit Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94835 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	D2SE (SE)	272	1	561242 173851

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	BGS Recorded Mineral Sites Site Name: Galley Hill Portland Cement Works Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94816 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5NW (NW)	442	1	560329 174851
60	BGS Recorded Mineral Sites Site Name: Milton Street Gravel Pit Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94823 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Boyn Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D5SW (W)	449	1	560288 174475
61	BGS Recorded Mineral Sites Site Name: Swanscombe Gravel Pit Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94831 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D2NE (SE)	455	1	561320 174096
62	BGS Recorded Mineral Sites Site Name: Swanscombe Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94837 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D2NW (SE)	460	1	560926 174261
63	BGS Recorded Mineral Sites Site Name: Galley Hill Portland Cement Works Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94817 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5NW (NW)	476	1	560305 175044
64	BGS Recorded Mineral Sites Site Name: Craylands Chalk Pits Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94830 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5SW (W)	527	1	560408 174562

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	BGS Recorded Mineral Sites Site Name: Galley Hill Portland Cement Works Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94818 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D9SW (NW)	557	1	560338 175143
66	BGS Recorded Mineral Sites Site Name: Swanscombe Gravel Pit Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94824 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Boyn Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D2NW (SW)	632	1	560805 174413
67	BGS Recorded Mineral Sites Site Name: Swanscombe Location: , Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94836 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D3SW (SE)	643	1	561585 173994
68	BGS Recorded Mineral Sites Site Name: Pilgrim Road Chalk Pit Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94828 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5NE (NW)	659	1	560498 175065
69	BGS Recorded Mineral Sites Site Name: Galley Hill Chalk Pits Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94826 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D6SW (E)	678	1	560967 174481
70	BGS Recorded Mineral Sites Site Name: Galley Hill Chalk Pits Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94827 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D6SW (NE)	782	1	561017 174584

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	BGS Recorded Mineral Sites Site Name: Galley Hill Chalk Pits Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94825 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5SE (NW)	784	1	560684 174692
72	BGS Recorded Mineral Sites Site Name: Swanscombe Chalk Pit Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94820 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D6SE (NE)	832	1	561131 174620
73	BGS Recorded Mineral Sites Site Name: Galley Hill Chalk Pits Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94819 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D6SW (N)	869	1	560826 174660
74	BGS Recorded Mineral Sites Site Name: Britannia Cement Works Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94822 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5NE (N)	875	1	560769 174808
75	BGS Recorded Mineral Sites Site Name: Britannia Cement Works Location: , Galley Hill, Swanscombe, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 94821 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D5NE (N)	923	1	560769 175091
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Natural Cavities Easting: 560500 Northing: 174200 Distance: 449 Quadrant Reference: D1 Quadrant Reference: NE Bearing Ref: SW Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group Superficial Geology: Boyne Hill Gravel Detail:	D1NE (SW)	449	7	560500 174200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 561000 Northing: 174400 Distance: 597 Quadrant Reference: D2 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group Superficial Geology: Made Ground, Worked Ground Detail:	D2NW (SE)	597	7	561000 174400
	Natural Cavities Easting: 560700 Northing: 174700 Distance: 800 Quadrant Reference: D5 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Solution Pipe x 4 Solid Geology Detail: Chalk Group Superficial Geology: Made Ground, Worked Ground Detail:	D5SE (NW)	800	7	560700 174700
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560374 173874
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	D6SW (S)	0	1	560833 174474
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	217	1	560833 175000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6SW (S)	0	1	560833 174474
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	217	1	560833 175000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6SW (SW)	0	1	560821 174455
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	24	1	560919 173927
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	27	1	560788 173929
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	30	1	560899 174388
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D5SW (NW)	100	1	560402 174732
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	217	1	560833 175000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	1	560990 173847
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D1NE (SW)	0	1	560653 174179
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560377 173909
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	1	560899 174388

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	100	1	560305 174786
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D5SW (NW)	104	1	560402 174732
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D5SE (W)	107	1	560780 174478
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6SW (S)	112	1	560833 174474
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	116	1	560405 174830
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	153	1	560238 174885
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	D5SE (W)	188	1	560781 174474
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	189	1	560257 174840
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	207	1	560263 174832
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	217	1	560833 175000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	240	1	560196 175000
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	1	561004 173817
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	1	560838 174145
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6SW (S)	0	1	560833 174474
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D5SW (W)	101	1	560210 174728
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6SW (N)	112	1	560865 174744
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	189	1	560263 174832
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	217	1	560833 175000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6SW (S)	0	1	560833 174474
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	1	561004 173817
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	1	560838 174145

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560374 173874
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1NE (S)	0	1	560741 174120
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	24	1	560919 173927
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	27	1	560788 173929
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D5SW (W)	101	1	560210 174728
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6SW (N)	112	1	560865 174744
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D5NW (NW)	189	1	560263 174832
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	217	1	560833 175000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6SW (S)	0	1	560833 174474
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	1	560990 173847
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6SW (E)	0	1	561081 174548
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560374 173874
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	217	1	560833 175000
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560327 173824
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560377 173749
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D6SW (E)	0	1	561002 174524
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560327 173824
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	560377 173749
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D6SW (E)	0	1	561002 174524

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Contemporary Trade Directory Entries Name: Danny Beshaw Location: 6, Leonard Avenue, Swanscombe, Kent, DA10 0EY Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	D1SW (SW)	13	-	560402 173754
77	Contemporary Trade Directory Entries Name: Danny Beshaw Location: Leonard Av, Swanscombe, Kent, DA10 0EY Classification: Tyre Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	D1SW (SW)	29	-	560280 173770
78	Contemporary Trade Directory Entries Name: M J C Brick Pointing & Cleaning Contractor Location: 12, St. Pauls Close, Swanscombe, Kent, DA10 0BA Classification: Blast Cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	D1SE (SW)	181	-	560489 173922
79	Contemporary Trade Directory Entries Name: United Carpet Cleaning Masters Location: 116c Swanscombe St, Swanscombe, Kent, DA10 0BG Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Manually positioned to the address or location	D1SW (SW)	181	-	560376 173922
80	Contemporary Trade Directory Entries Name: K B Plumbing & Heating Location: 23, Broad Road, Swanscombe, Kent, DA10 0DR Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	D1NW (SW)	293	-	560166 174139
81	Contemporary Trade Directory Entries Name: Danny Collins Supply Co Ltd Location: 54, Swanscombe Street, Swanscombe, Kent, DA10 0BN Classification: Fasteners & Fixing Devices Status: Inactive Positional Accuracy: Automatically positioned to the address	D1SE (SW)	299	-	560657 174057
81	Contemporary Trade Directory Entries Name: Church Road Garage Location: 149, Church Road, Swanscombe, Kent, DA10 0HL Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	D1SE (S)	331	-	560676 174086
81	Contemporary Trade Directory Entries Name: Hamilton Vehicle Radiator Services Location: 149, Church Road, Swanscombe, Kent, DA10 0HL Classification: Car Radiator Servicing & Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	D1SE (S)	331	-	560676 174086
81	Contemporary Trade Directory Entries Name: Hamilton Radiators Location: 149, Church Road, Swanscombe, Kent, DA10 0HL Classification: Car Radiator Servicing & Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	D1SE (S)	331	-	560676 174086
81	Contemporary Trade Directory Entries Name: Illusions Body & Paint Location: Rear Of, 149, Church Road, Swanscombe, Kent, DA10 0HL Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	D1NE (S)	341	-	560678 174095
81	Contemporary Trade Directory Entries Name: Mick'S Autos Location: Rear Of, 149, Church Road, Swanscombe, Kent, DA10 0HL Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	D1NE (S)	341	-	560678 174095
82	Contemporary Trade Directory Entries Name: Capital & County Services Ltd Location: Milton Road, Swanscombe, Kent, DA10 0LX Classification: Bakery Equipment Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SW (W)	330	-	560131 174465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Contemporary Trade Directory Entries Name: Marcol Location: 57, Pentstemon Drive, Swanscombe, Kent, DA10 0NL Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SW (NW)	392	-	560290 174745
84	Contemporary Trade Directory Entries Name: Kent International Freight Services (Uk) Ltd Location: 129, Church Road, Swanscombe, Kent, DA10 0HE Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	D1NE (SW)	446	-	560693 174200
84	Contemporary Trade Directory Entries Name: Arthur Lee Location: Church Road, Swanscombe, Kent, DA10 0HJ Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	D1NE (SW)	452	-	560651 174213
85	Contemporary Trade Directory Entries Name: Ebbsfleet International Location: International Way, Ebbsfleet Valley, Dartford, DA10 1EB Classification: Railways Status: Inactive Positional Accuracy: Automatically positioned to the address	D2NE (SE)	520	-	561396 174104
86	Contemporary Trade Directory Entries Name: Algars Chair Canning Service Location: 22, Orchard Road, Swanscombe, Kent, DA10 0AE Classification: Furniture - Repairing & Restoring Status: Active Positional Accuracy: Automatically positioned to the address	D5SW (NW)	540	-	560439 174737
87	Contemporary Trade Directory Entries Name: Swanscombe Fantastic Cleaners Location: 57, Milton Road, Swanscombe, Kent, DA10 0LS Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	D1NW (W)	561	-	560381 174412
87	Contemporary Trade Directory Entries Name: Swanscombe Cleaners Location: 57, Milton Road, Swanscombe, Kent, DA10 0LS Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	D1NW (W)	561	-	560381 174412
87	Contemporary Trade Directory Entries Name: Ambassador Environmental Services Location: 112, Milton Road, Swanscombe, Kent, DA10 0LY Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SW (W)	581	-	560419 174440
87	Contemporary Trade Directory Entries Name: Ambassador Location: 112, Milton Road, Swanscombe, Kent, DA10 0LY Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SW (W)	581	-	560419 174440
87	Contemporary Trade Directory Entries Name: R D R Automotive Location: 106-108, Milton Road, Swanscombe, Kent, DA10 0LY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SW (W)	587	-	560427 174442
88	Contemporary Trade Directory Entries Name: Quarry Cars Location: Unit 19, Swanscombe Business Centre, London Rd, Swanscombe, Kent, DA10 0LH Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	D5NW (NW)	561	-	560442 174905

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	Contemporary Trade Directory Entries Name: Interskill Plumbing & Heating Ltd Location: Unit 12, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Definaprint Location: Unit 16, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Swanscombe Car Sales Location: 19, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: S B Printing Ltd Location: Unit 8/9, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Ser-Ray-Vac Location: Unit 7, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Heating Equipment - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Ict International Container Transport (Uk) Ltd Location: Unit 4, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Atmosclear Location: Unit 13, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Heating Equipment - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Holt Industrial Services Ltd Location: Unit 6, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Industrial Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Food Links Location: Unit 7, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Food Colouring, Flavours & Additive Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906
88	Contemporary Trade Directory Entries Name: Cc Print Location: Unit 11, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NW (NW)	562	-	560443 174906

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	Contemporary Trade Directory Entries Name: Sapphire Motor Co Location: 19, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	D5NW (NW)	565	-	560446 174905
88	Contemporary Trade Directory Entries Name: L J S Location: Unit 5, Galley Hill Industrial Estate, London Road, Swanscombe, Kent, DA10 0AA Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (NW)	568	-	560453 174873
88	Contemporary Trade Directory Entries Name: Buggy'S Body Shop Location: Unit 19d, London Rd, Swanscombe, Kent, DA10 0LH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	D5NE (NW)	569	-	560452 174892
88	Contemporary Trade Directory Entries Name: London Road Car Sales Location: Unit 19a, Swanscombe Business Centre, London Rd, Swanscombe, Kent, DA10 0LH Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NW (NW)	571	-	560450 174914
88	Contemporary Trade Directory Entries Name: Phantom Tinting Location: Unit 9, Swanscombe Business Centre, London Road, Swanscombe, Kent, DA10 0LH Classification: Window Tinting Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (NW)	578	-	560460 174902
88	Contemporary Trade Directory Entries Name: G & M Motors Location: 17-18a, London Road, Swanscombe, DA10 0LQ Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (NW)	607	-	560489 174904
88	Contemporary Trade Directory Entries Name: Whitehill Ltd Location: 17-18a, London Road, Swanscombe, Kent, DA10 0LQ Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (NW)	607	-	560489 174904
88	Contemporary Trade Directory Entries Name: Priory Renault Location: 17-18a, London Road, Swanscombe, Kent, DA10 0LQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (NW)	607	-	560489 174904
89	Contemporary Trade Directory Entries Name: Optimum Power Services Location: Unit 4, Galley Hill Industrial Estate, London Road, Swanscombe, DA10 0AA Classification: Generators - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (NW)	574	-	560461 174857
89	Contemporary Trade Directory Entries Name: Dieselec Thistle Location: Unit 3 Galley Hill Trading Estate, London Road, Swanscombe, Kent, DA10 0AA Classification: Generators - Sales & Service Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (NW)	607	-	560494 174860
89	Contemporary Trade Directory Entries Name: Pitshangar Location: Unit 2, Galley Hill Industrial Estate, London Road, Swanscombe, Kent, DA10 0AA Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (NW)	607	-	560494 174860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	Contemporary Trade Directory Entries Name: Wood Machines Ltd Location: Unit 1, Galley Hill Industrial Estate, London Road, Swanscombe, Kent, DA10 0AA Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (NW)	617	-	560504 174861
89	Contemporary Trade Directory Entries Name: Magister Distribution Location: Unit 1, Galley Hill Industrial Estate, London Road, Swanscombe, Kent, DA10 0AA Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	D5NE (NW)	617	-	560504 174861
90	Contemporary Trade Directory Entries Name: Personaluxe Location: 60, Church Road, Swanscombe, Kent, DA10 0HF Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D1NE (SW)	579	-	560648 174341
91	Contemporary Trade Directory Entries Name: Eriks Industrial Distribution Location: Unit 6, Galley Hill Industrial Estate, London Road, Swanscombe, Kent, DA10 0AA Classification: Power Transmission Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (NW)	632	-	560526 174798
92	Contemporary Trade Directory Entries Name: A E Frost Location: 64, Stanhope Road, Swanscombe, Kent, DA10 0AS Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	D1NE (SW)	643	-	560744 174406
93	Contemporary Trade Directory Entries Name: Reliagraphics Ltd Location: 40, High Street, Swanscombe, Kent, DA10 0AB Classification: Staircase, Balustrade & Handrail Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SE (NW)	671	-	560571 174713
93	Contemporary Trade Directory Entries Name: Femco Shipping Ltd Location: 40, High Street, Swanscombe, Kent, DA10 0AB Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SE (NW)	671	-	560571 174713
94	Contemporary Trade Directory Entries Name: Swanscombe Auto Centre Ltd Location: 38-44, Milton Road, Swanscombe, Kent, DA10 0LY Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SE (W)	680	-	560548 174496
94	Contemporary Trade Directory Entries Name: Swanscombe Auto Centre Location: 38-44, Milton Road, Swanscombe, Kent, DA10 0LY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D5SE (W)	681	-	560549 174495
95	Contemporary Trade Directory Entries Name: Ace Car Breakers Location: Manor Way Business Park, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (NW)	684	-	560543 175009
95	Contemporary Trade Directory Entries Name: Crossways Recycling Ltd Location: Manor Way Business Park, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Recycling Centres Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (NW)	684	-	560543 175009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Contemporary Trade Directory Entries Name: Ace Car Breaker Location: Kent Kraft Industrial Estate, Lower Road, Northfleet, Gravesend, Kent, DA11 9SR Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (NW)	686	-	560537 175037
96	Contemporary Trade Directory Entries Name: L D F Location: Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Print Finishers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (NW)	693	-	560559 174987
97	Contemporary Trade Directory Entries Name: The Laundry Room Location: 1, The Parade, High Street, Swanscombe, DA10 0AJ Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	D5SE (W)	736	-	560615 174525
97	Contemporary Trade Directory Entries Name: Swanscombe Dry Cleaners Location: 2, The Parade, High Street, Swanscombe, Kent, DA10 0AJ Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	D5SE (W)	740	-	560620 174527
97	Contemporary Trade Directory Entries Name: Terrific Cleaners Swanscombe Location: 5a, The Parade, High Street, Swanscombe, Kent, DA10 0AJ Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	D5SE (W)	745	-	560629 174545
98	Contemporary Trade Directory Entries Name: Paint & Body Location: Unit D5, Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	D5NE (N)	788	-	560628 175084
99	Contemporary Trade Directory Entries Name: Paramount Print Solutions Ltd Location: Unit C2, Manor Way Business Park, Manor Way, Swanscombe, DA10 0PP Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	D9SE (N)	798	-	560622 175128
99	Contemporary Trade Directory Entries Name: Fathers Finishers Location: Unit C2 Manor Way Business Park, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Print Finishers Status: Active Positional Accuracy: Automatically positioned to the address	D9SE (N)	798	-	560622 175128
99	Contemporary Trade Directory Entries Name: Excel Refurbishment Location: Unit C2, Northfleet Ind Est, Lower Rd, Northfleet, Gravesend, Kent, DA11 9SW Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the address or location	D9SE (N)	815	-	560626 175160
100	Contemporary Trade Directory Entries Name: Body & Paint Location: Unit D6, Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (N)	804	-	560686 174916
100	Contemporary Trade Directory Entries Name: South East Recycling Location: Unit G3, Manor Way Business Park, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Recycling Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (N)	830	-	560712 174913

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	Contemporary Trade Directory Entries Name: Paint & Body Location: Unit D5, Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (N)	813	-	560676 175014
101	Contemporary Trade Directory Entries Name: Evergreen Design & Print Location: Unit 3 Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Printers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (N)	813	-	560678 175009
101	Contemporary Trade Directory Entries Name: D G Graphics Location: B1-B2, Unit, Northfleet Industrial Estate, Lower Road, Northfleet, Gravesend, Kent, DA11 9SW Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	D5NE (N)	824	-	560685 175025
101	Contemporary Trade Directory Entries Name: Totters Independent Trading Location: Unit E, Swanscombe, Kent, da10 0pp Classification: Salvage Dealers Status: Active Positional Accuracy: Manually positioned within the geographical locality	D5NE (N)	838	-	560700 175022
101	Contemporary Trade Directory Entries Name: Abbey Direct Ltd Location: Unit B1-B2, Manor Way Business Park, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (N)	838	-	560700 175022
101	Contemporary Trade Directory Entries Name: Quddos Ltd Location: Unit B1-B2, Manor Way Business Park, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (N)	838	-	560700 175022
101	Contemporary Trade Directory Entries Name: Dps Printing Solutions Location: Unit B1-B2, Manor Way Business Park, Manor Way, Swanscombe, DA10 0PP Classification: Printing Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (N)	842	-	560700 175039
101	Contemporary Trade Directory Entries Name: Vinalith Location: Unit B1-B2, Manor Way Business Park, Manor Way, Swanscombe, DA10 0PP Classification: Printers - Glass, Metal, Plastics Etc. Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (N)	842	-	560700 175039
101	Contemporary Trade Directory Entries Name: Abbey Colour Printers Location: Unit B3, Northfleet Industrial Estate, Lower Road, Northfleet, Gravesend, Kent, DA11 9SW Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D5NE (N)	852	-	560715 175021
101	Contemporary Trade Directory Entries Name: L D F Print Finishers Location: Unit B3, Manor Way Business Park, Manor Way, Swanscombe, DA10 0PP Classification: Lamination & Encapsulation Services Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (N)	863	-	560722 175035
101	Contemporary Trade Directory Entries Name: Quddos Printing Solutions Ltd Location: Unit B3, Manor Way Business Park, Manor Way, Swanscombe, DA10 0PP Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (N)	863	-	560722 175035

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	Contemporary Trade Directory Entries Name: Classic Colour Location: Unit B3, Manor Way Business Park, Manor Way, Swanscombe, DA10 0PP Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	D5NE (N)	863	-	560722 175035
102	Contemporary Trade Directory Entries Name: Kallsure Ltd Location: 17, Manor Way Business Pk, Manor Way, Swanscombe, Kent, DA10 0PP Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (N)	846	-	560720 174966
102	Contemporary Trade Directory Entries Name: Sivyer Waste Management Location: Unit D2, Kent Kraft Ind Est, Lower Rd, Northfleet, Gravesend, Kent, DA11 9SR Classification: Recycling Centres Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (N)	859	-	560737 174948
103	Contemporary Trade Directory Entries Name: Arrowsped Logistics Location: Unit 3-5, Oakwood Industrial Estate, Stonebridge Road, Northfleet, Gravesend, DA11 9DT Classification: Freight Forwarders Status: Active Positional Accuracy: Automatically positioned to the address	D6SE (E)	908	-	561325 174640
103	Contemporary Trade Directory Entries Name: Tennants Distribution Ltd Location: Thamesway, Northfleet, Gravesend, Kent, DA11 9DT Classification: Chemicals - Distributors & Wholesalers Status: Active Positional Accuracy: Manually positioned within the geographical locality	D6SE (E)	909	-	561326 174640
104	Contemporary Trade Directory Entries Name: Hidsons Gravesend Location: Unit C, Oakwood Industrial Estate, Stonebridge Road, Northfleet, Gravesend, DA11 9DT Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address	D6SE (E)	912	-	561380 174619
105	Contemporary Trade Directory Entries Name: Auto Rescue Recovery Services Location: Station House, Station Road, Northfleet, Gravesend, DA11 9DY Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Automatically positioned to the address	D7SW (E)	914	-	561610 174458
105	Contemporary Trade Directory Entries Name: European Recovery & Garage Services Ltd Location: Station Road, Northfleet, Gravesend, Kent, DA11 9DY Classification: Commercial Vehicle Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D7SW (E)	915	-	561610 174459
105	Contemporary Trade Directory Entries Name: P & A Thomas Services Location: Station House, Station Road, Northfleet, Gravesend, Kent, DA11 9DY Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	D7SW (E)	915	-	561610 174459
106	Contemporary Trade Directory Entries Name: Matrix Furniture Ltd Location: Unit D, Northfleet Ind Est, Lower Rd, Northfleet, Gravesend, Kent, DA11 9SW Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D5NE (N)	919	-	560766 175086
107	Contemporary Trade Directory Entries Name: Kent Car Breakers Location: Flat 1, Nesbitt House, 25, Station Road, Northfleet, Gravesend, Kent, DA11 9DY Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	D7SW (E)	929	-	561573 174511

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Contemporary Trade Directory Entries Name: Cls Lifting Services & Engineering Ltd Location: Unit 9, Ebbsfleet Industrial Estate, Northfleet, Gravesend, Kent, DA11 9DZ Classification: Lifting Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	D6SE (E)	970	-	561405 174671
108	Contemporary Trade Directory Entries Name: Graphic Solutions Location: Unit 11, Ebbsfleet Industrial Estate, Northfleet, Gravesend, Kent, DA11 9DZ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D6SE (E)	972	-	561392 174679
108	Contemporary Trade Directory Entries Name: Trade Paint Supplies Ltd Location: Unit 9, Ebbsfleet Business Park, Northfleet, Gravesend, DA11 9DZ Classification: Painting & Decorating Supplies Status: Active Positional Accuracy: Automatically positioned to the address	D6SE (E)	975	-	561409 174675
108	Contemporary Trade Directory Entries Name: Rocha Print Sololutions Location: Unit 14, Ebbsfleet Industrial Estate, Northfleet, Gravesend, Kent, DA11 9DZ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D6SE (E)	976	-	561371 174694
108	Contemporary Trade Directory Entries Name: Wested Logisitcs Location: Unit 14, Ebbsfleet Business Park, Northfleet, Gravesend, Kent, DA11 9DZ Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	D6SE (E)	976	-	561371 174694
108	Contemporary Trade Directory Entries Name: C E I Global Logistics Ltd Location: Ebbsfleet Industrial Estate, Stonebridge Rd, Northfleet, Gravesend, Kent, DA11 9BJ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D6SE (E)	991	-	561414 174690
109	Contemporary Trade Directory Entries Name: Partek Cargotec Ltd Location: Unit G3, Kent Kraft Ind Est, Lower Rd, Northfleet, Gravesend, Kent, DA11 9SR Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D6NW (N)	978	-	560854 174966
110	Contemporary Trade Directory Entries Name: Korsnas Paper Sacks Ltd Location: Galley Hill Road, Northfleet, Gravesend, Kent, DA11 9BZ Classification: Paper & Cardboard Products & Packaging - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	D6NE (NE)	986	-	561158 174772
111	Contemporary Trade Directory Entries Name: Northfleet Press Location: 5-6, Stonebridge Road, Northfleet, Gravesend, Kent, DA11 9DR Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	D7SW (E)	992	-	561683 174494
111	Contemporary Trade Directory Entries Name: Printing Design Bureau Location: 5-6, Stonebridge Road, Northfleet, Gravesend, Kent, DA11 9DR Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	D7SW (E)	992	-	561683 174494
112	Contemporary Trade Directory Entries Name: Oakwood Haulage Ltd Location: Stonebridge Rd, Northfleet, Gravesend, Kent, DA11 9DR Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	D7SW (E)	998	-	561588 174588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	Contemporary Trade Directory Entries Name: Force 12 Location: 48, Railway Street, Northfleet, Gravesend, Kent, DA11 9DU Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	D7SW (E)	999	-	561466 174671
114	Contemporary Trade Directory Entries Name: The London Bus Company Location: Unit 4, Northfleet Industrial Estate, Lower Road, Northfleet, GRAVESEND, Kent, DA11 9SN Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	D6NW (N)	1000	-	560852 175083
114	Contemporary Trade Directory Entries Name: Beautiful Body Repairs Location: Unit 11, Northfleet Industrial Estate, Lower Road, Northfleet, Gravesend, Kent, DA11 9SN Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	D6NW (N)	1000	-	560852 175083
114	Contemporary Trade Directory Entries Name: German Auto Parts Direct Ltd Location: Unit 11, Northfleet Industrial Estate, Lower Road, Northfleet, Gravesend, Kent, DA11 9SN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D6NW (N)	1000	-	560852 175083
115	Fuel Station Entries Name: Swanscombe Autocentre Location: 38-44 Milton Road, SWANSCOMBE, Kent, DA10 0LY Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	D5SE (W)	681	-	560549 174494

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Marine Nature Reserves Name: Thames Estuary Multiple Area: Y Area (m2): 10874320.9 Source: Natural England	D11SW (NE)	690	9	561741 175166
117	National Nature Reserves Name: Swanscombe Skull Site Multiple Areas: N Total Area (m2): 20873.27 Source: Natural England Reference: 1006139 Designation Date: Not Supplied	(W)	126	9	559866 174286
118	Nitrate Vulnerable Zones Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	D6SW (S)	0	10	560833 174474
119	Sites of Special Scientific Interest Name: Swanscombe Skull Site Multiple Areas: N Total Area (m2): 38785.32 Source: Natural England Reference: 1003665 Designation Details: National Nature Reserve Designation Date: 11th January 1988 Date Type: Notified Designation Details: Local Nature Reserve Designation Date: 11th January 1988 Date Type: Notified Designation Details: Nature Conservation Review Designation Date: 11th January 1988 Date Type: Notified Designation Details: Geological Conservation Review Designation Date: 11th January 1988 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 11th January 1988 Date Type: Notified	(W)	28	9	559912 174209
120	Sites of Special Scientific Interest Name: Bakers Hole Multiple Areas: N Total Area (m2): 68851.5 Source: Natural England Reference: 1001611 Designation Details: Local Nature Reserve Designation Date: 11th May 1989 Date Type: Notified Designation Details: Geological Conservation Review Designation Date: 11th May 1989 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 11th May 1989 Date Type: Notified	D6SW (E)	281	9	561038 174484

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Thurrock Borough Council - Environmental Health Department Dartford Borough Council - Environmental Health Department Gravesham Borough Council - Public Health Services	November 2013 October 2014 September 2013	Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region Environment Agency - Southern Region Environment Agency - Thames Region	April 2016 April 2016 April 2016	Quarterly Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	As notified As notified
Integrated Pollution Controls Environment Agency - Anglian Region Environment Agency - Southern Region	October 2008 October 2008	Not Applicable Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region Environment Agency - Southern Region	April 2016 April 2016	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Thurrock Borough Council - Environmental Health Department Gravesham Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department	February 2015 October 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Thurrock Borough Council - Environmental Health Department Gravesham Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department	February 2015 October 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Thurrock Borough Council - Environmental Health Department Gravesham Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department	February 2015 October 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Southern Region Environment Agency - Anglian Region	December 1999 September 1999	Not Applicable Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	As notified As notified
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	As notified As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	April 2016 April 2016 April 2016	Quarterly Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - Anglian Region Environment Agency - Southern Region	January 2016 January 2016	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region Environment Agency - Southern Region	April 2016 April 2016	Quarterly Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	April 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	May 2016	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region Environment Agency - Southern Region	October 2008 October 2008	Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	May 2016 May 2016 May 2016 May 2016	Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	April 2016 April 2016 April 2016 April 2016	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Dartford Borough Council - Environmental Health Department Gravesham Borough Council Kent County Council - Waste Management Group Thurrock Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Dartford Borough Council - Environmental Health Department Gravesham Borough Council Kent County Council - Waste Management Group Thurrock Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	February 2016	Bi-Annually
Explosive Sites Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Thurrock Borough Council - Development Control London Port Health Authority - Environmental Services Dartford Borough Council Kent County Council Gravesham Borough Council	December 2015 January 2008 January 2016 January 2016 October 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Thurrock Borough Council - Development Control London Port Health Authority - Environmental Services Dartford Borough Council Kent County Council Gravesham Borough Council	December 2015 January 2008 January 2016 January 2016 October 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2016	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	June 2015	Bi-Annually
Areas of Adopted Green Belt Dartford Borough Council Gravesham Borough Council Thurrock Borough Council - Development Control	May 2016 May 2016 May 2016	As notified As notified As notified
Areas of Unadopted Green Belt Dartford Borough Council Gravesham Borough Council Thurrock Borough Council - Development Control	November 201 November 201 November 201	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	April 2016	Bi-Annually
Environmentally Sensitive Areas Natural England	April 2016	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	April 2016	Bi-Annually
Marine Nature Reserves Natural England	April 2016	Bi-Annually
National Nature Reserves Natural England	April 2016	Bi-Annually
National Parks Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2016	Bi-Annually
Special Areas of Conservation Natural England	April 2016	Bi-Annually
Special Protection Areas Natural England	April 2016	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Dartford Borough Council - Environmental Health Department Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR	Telephone: 01322 343233 Fax: 01322 343963 Website: www.dartford.gov.uk
4	Gravesham Borough Council - Environmental Health Department Civic Centre, 132 Windmill Street, Gravesend, Kent, DA12 1AU	Telephone: 01474 337241 Fax: 01474 337546 Email: glyn.thomson@gravesham.gov.uk Website: www.gravesham.gov.uk
5	Kent County Council - Waste Management Group Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT	Telephone: 01622 605976 Website: www.kent.gov.uk
6	Gravesham Borough Council Cygnet House, 132 Windmill Street, Gravesend, Kent, DA12 1AU	Telephone: 01474 564422 Fax: 01474 337546 Website: www.gravesham.gov.uk
7	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
8	Thurrock Borough Council - Development Control Civic Offices, New Road, Grays, Essex, RM17 6SL	Telephone: 01375 390000 Fax: 01375 652359 Website: www.thurrock.gov.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

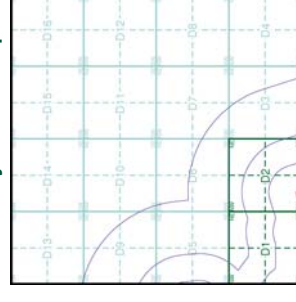
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice D



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
Kent, DA10 0DF

Bedrock Aquifer Designation

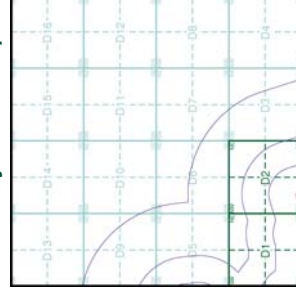
General

- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Agency and Hydrological

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice D



Order Details

Order Number: 88304408.1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
Kent, DA10 0DF

Superficial Aquifer Designation

General

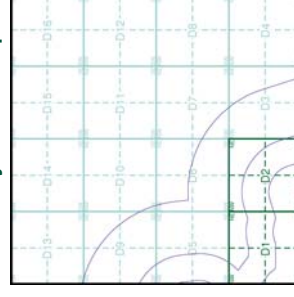
- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landlip)

Site Sensitivity Context Map - Slice D

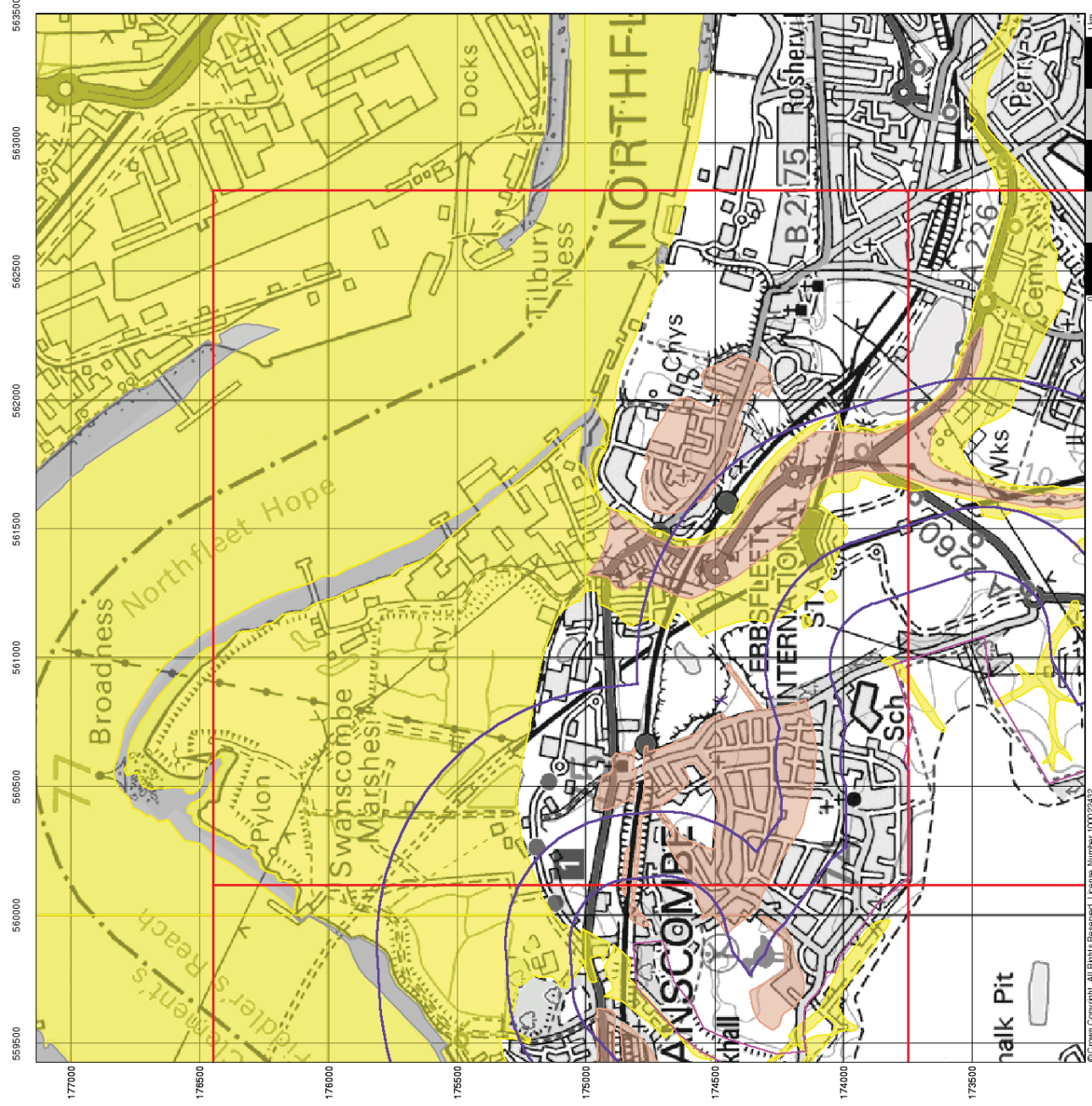


Order Details

Order Number: 89304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF



Source Protection Zones

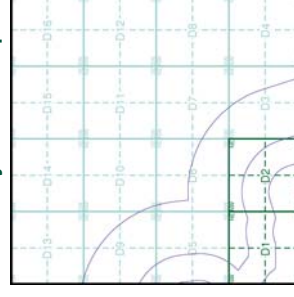
General

-  Specified Site
-  Bearing Reference Point
-  Map ID
-  Slice

Agency and Hydrological

-  Inner zone (Zone 1)
-  Inner zone - subsurface activity only (Zone 1c)
-  Outer zone (Zone 2)
-  Outer zone - subsurface activity only (Zone 2c)
-  Total catchment (Zone 3)
-  Total catchment - subsurface activity only (Zone 3c)
-  Special Interest (Zone 4)
-  Source Protection Zone Borehole

Site Sensitivity Context Map - Slice D



Order Details

Order Number: 88304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF

Sensitive Land Uses

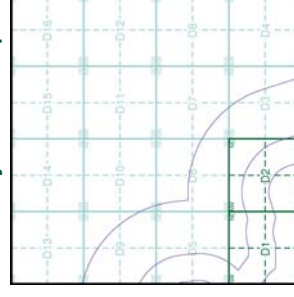
General

-  Specified Site
-  Slice
-  Specified Buffer(s)
-  Map ID
-  Bearing Reference Point

Sensitive Land Uses

-  Ancient Woodland
-  Area of Adopted Green Belt
-  Area of Unadopted Green Belt
-  Area of Outstanding Natural Beauty
-  Environmentally Sensitive Area
-  Forest Park
-  Local Nature Reserve
-  Marine Nature Reserve
-  National Nature Reserve
-  National Park
-  Nitrate Sensitive Area
-  Nitrate Vulnerable Zone
-  Ramsar Site
-  Site of Special Scientific Interest
-  Special Area of Conservation
-  Special Protection Area
-  World Heritage Sites

Site Sensitivity Context Map - Slice D

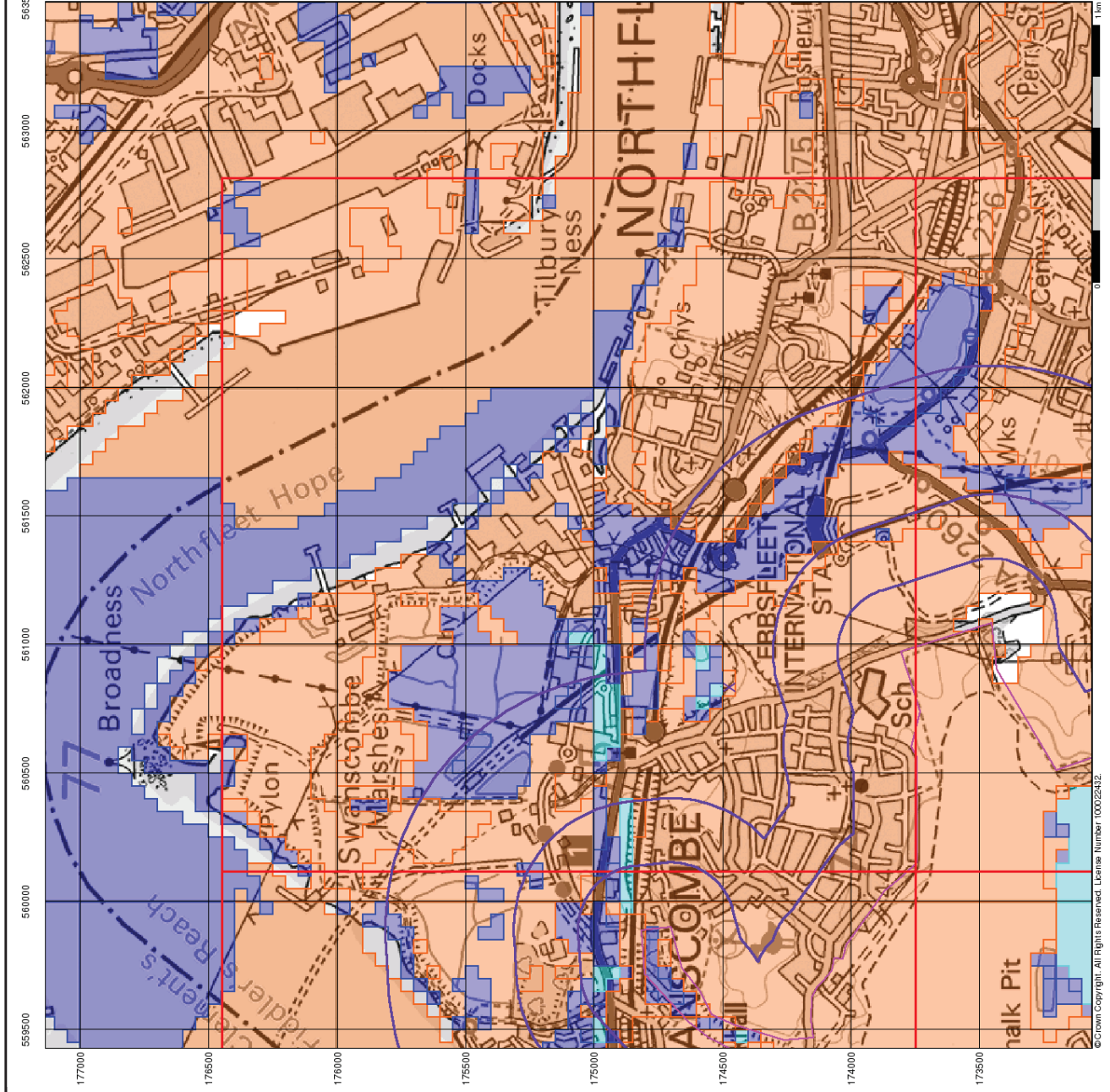


Order Details

Order Number: 88304408.1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

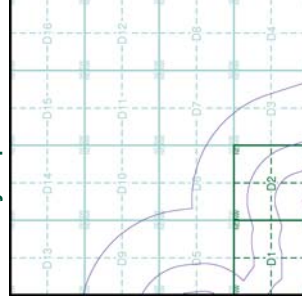
Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,
 Kent, DA10 0DF



Limited Potential for Groundwater Flooding to Occur
 Potential for Groundwater Flooding of Property Situated Below Ground Level
 Potential for Groundwater Flooding to Occur at Surface





Order Details

Order Details

Order Number:	8930408_1_1
Customer Ref:	250122/00
National Grid Reference:	560830, 174470
Slice:	D
Site Area (Ha):	272.38
Search Buffer (m):	1000

Site Details

Site Details
Barton Willmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Industrial Land Use Map

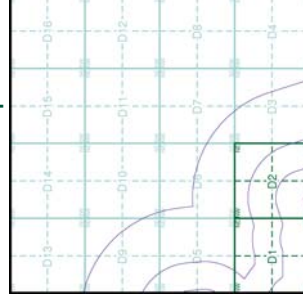
General

- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice D

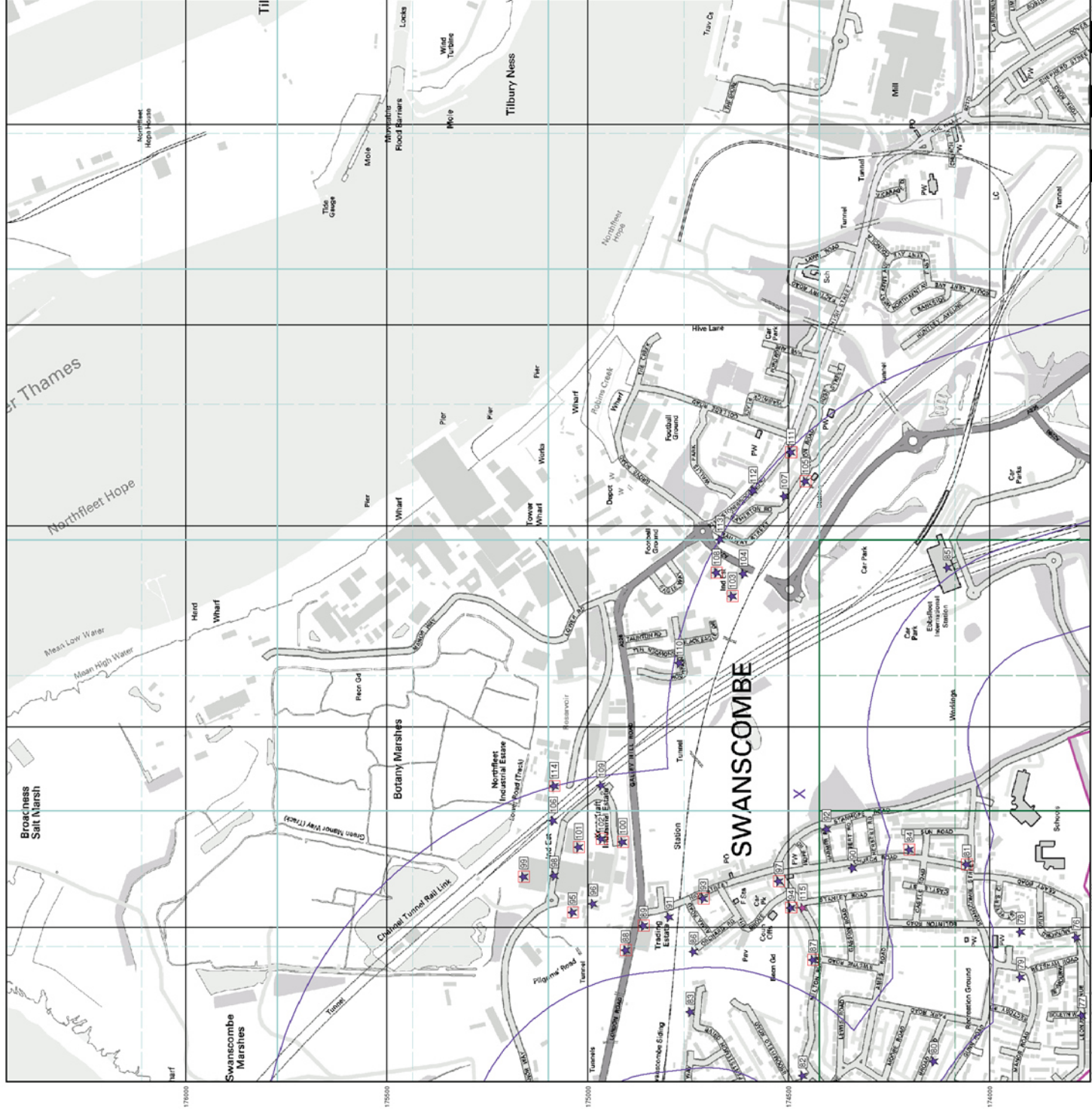


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

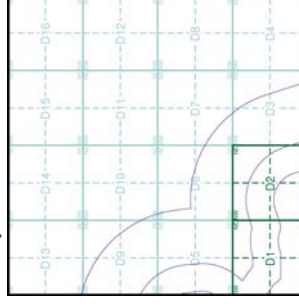


General
 Specified Site
 Specified Buffer(s)
 Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice D

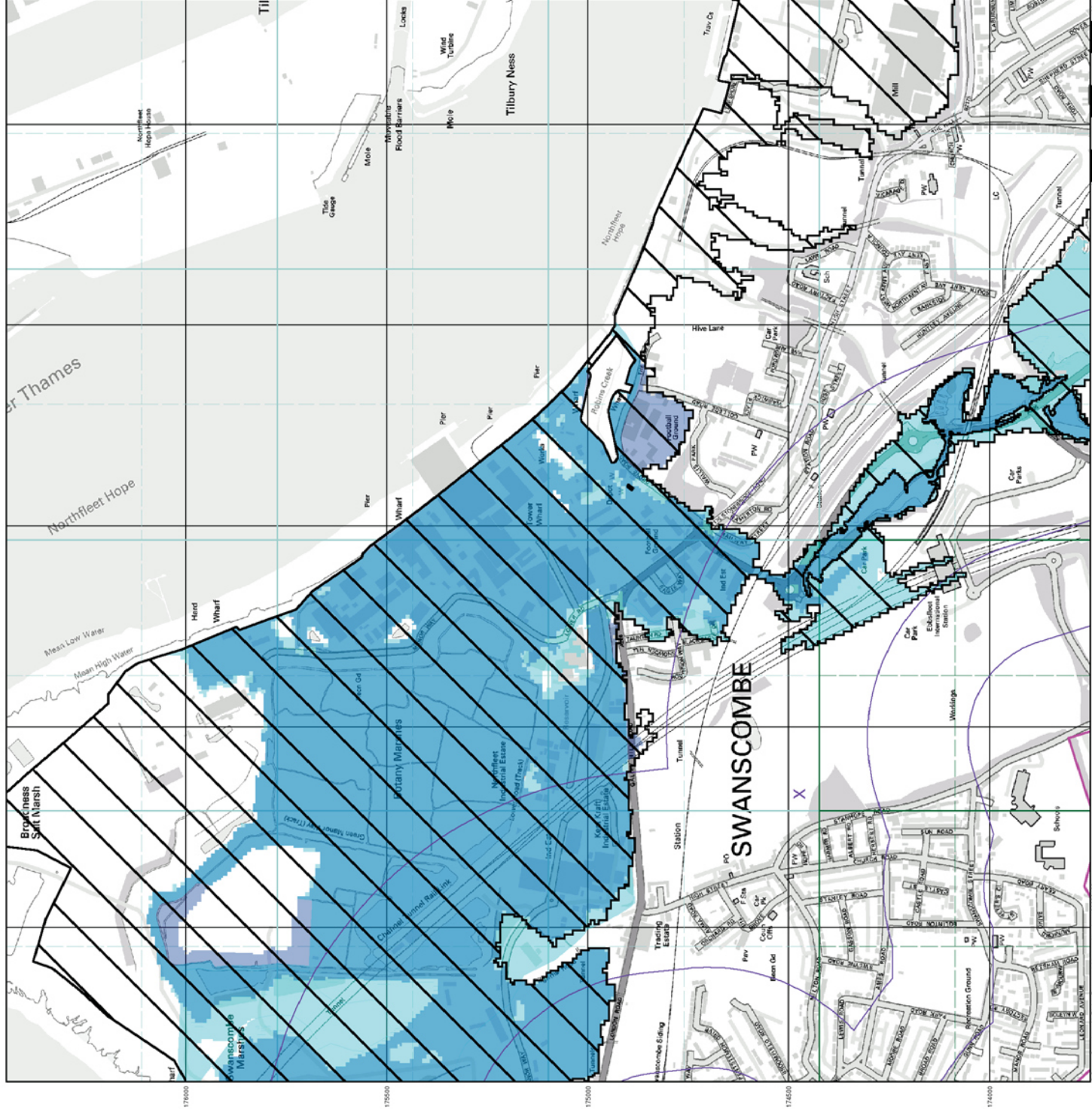


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location

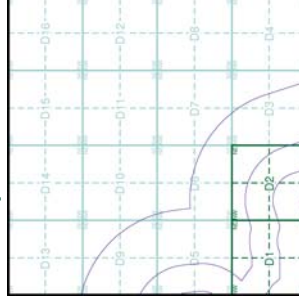
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice D

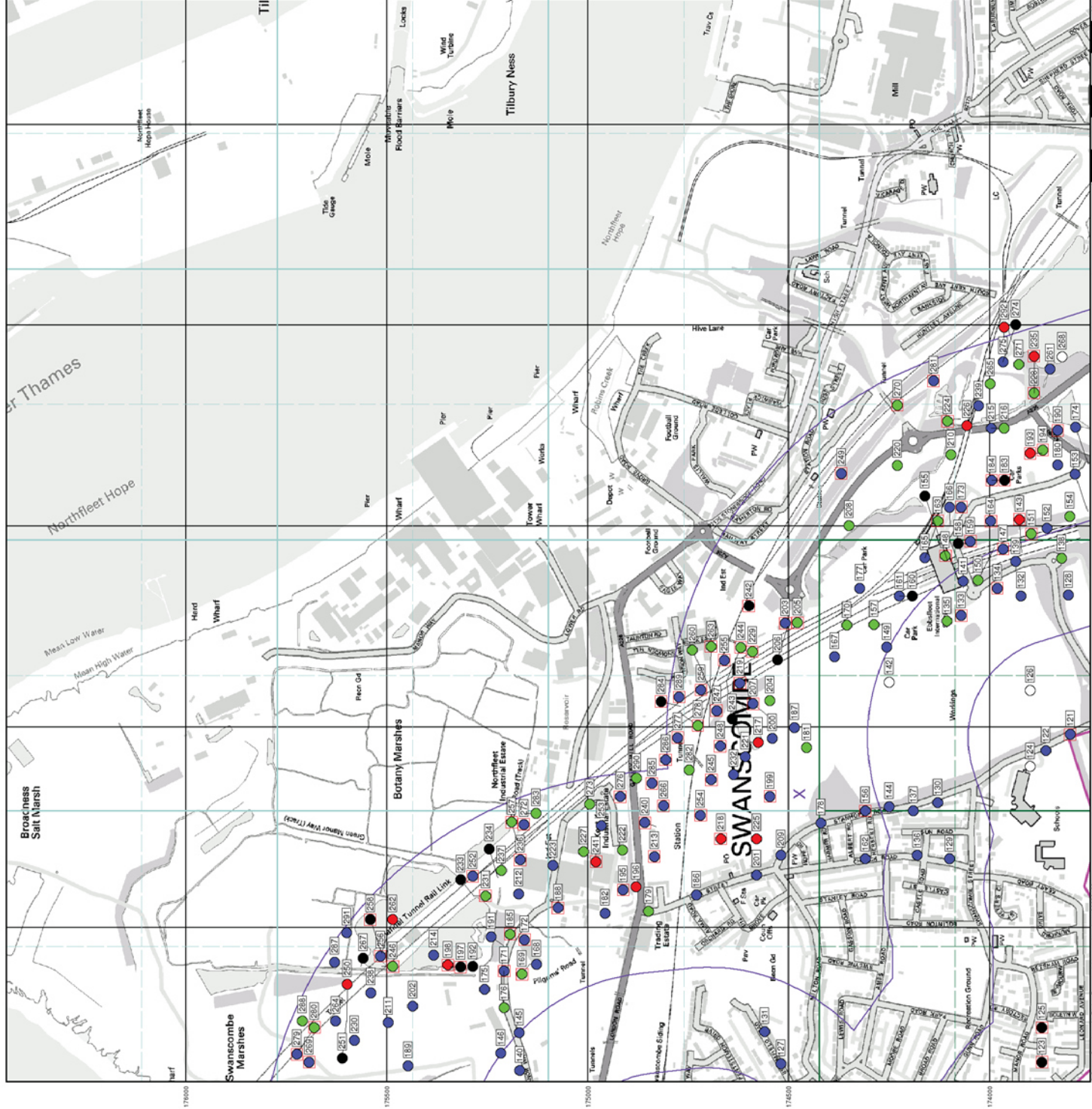


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



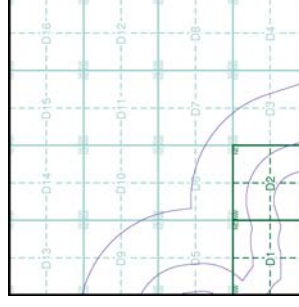
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID

Detailed River Network Data

-  Primary River
-  Secondary River
-  Tertiary River
-  Canal
-  Canal Tunnel
-  Undefined River
-  Lake/Reservoir
-  Offline Drainage Feature
-  Extended Culvert (greater than 50m)
-  Underground River (inferred)
-  Underground River (local knowledge)
-  Downstream of High Water Mark
-  Downstream of Seaward Extension
-  Not assigned River feature

EANRW Detailed River Network Map - Slice D

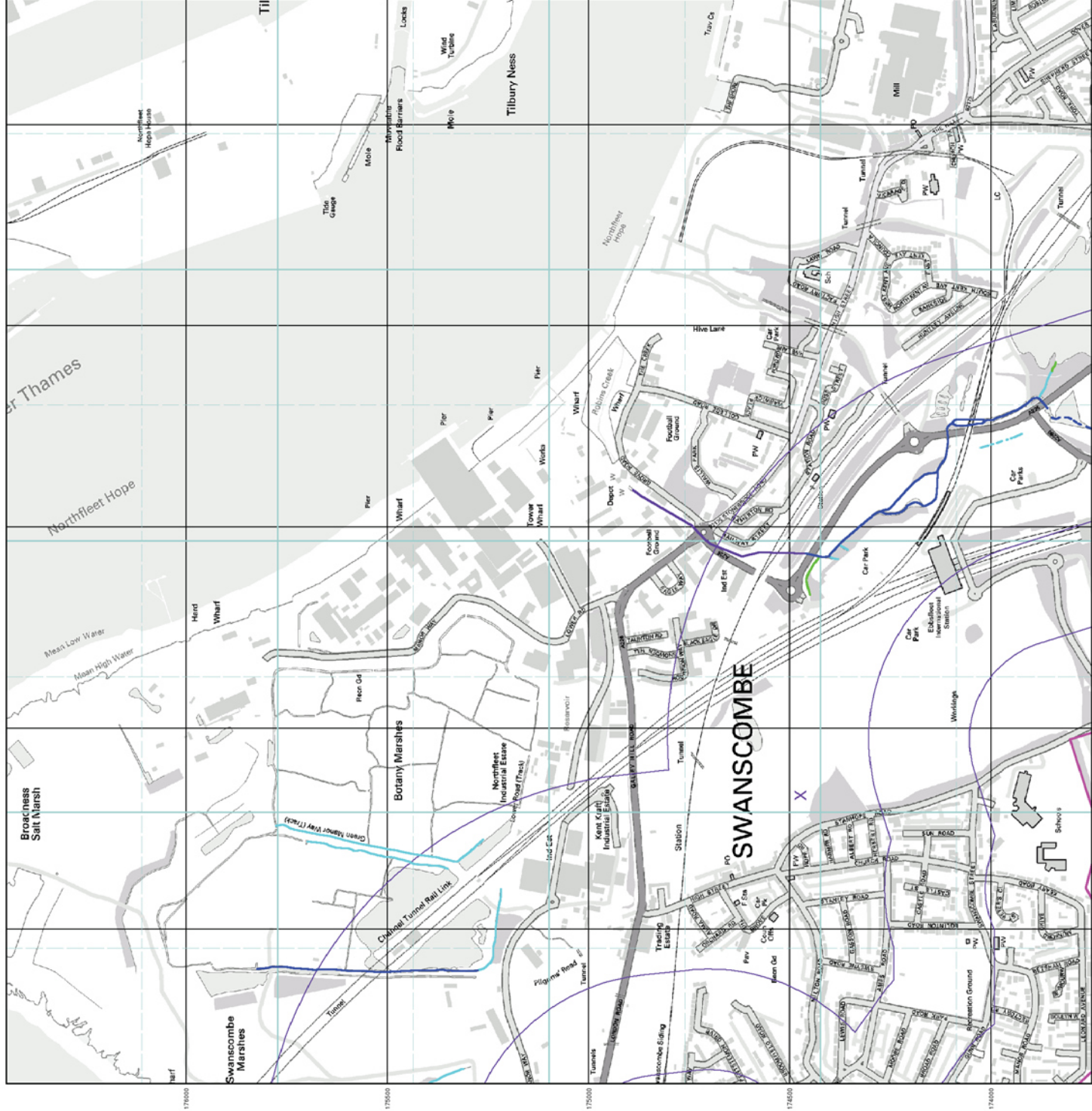


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Envirocheck[®] Report:

Historical Data Report Datasheet

Order Details:

Order Number:

89304408_1_1

Customer Reference:

250122/00

National Grid Reference:

560830, 174470

Slice:

D

Site Area (Ha):

272.38

Search Buffer (m):

1000

Site Details:

Barton Wilmore, The Observatory
Southfleet Road
SWANSCOMBE
Kent
DA10 0DF

Client Details:

Mr P Measham
Ove Arup & Partners International Ltd
13 Fitzroy Street
London
W1T 4BQ

Report Section	Page Number
Summary	-
Historical Building Plans Information	-
Historical Land Use Information	1
Historical Tanks and Energy Facilities	5
Historical Map List	6
Useful Contacts and Further Information	8

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer. A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Building Plans Information					
Areas Cleared Due To Enemy Action					
Above Ground Fuel Tanks (100m)				n/a	n/a
Asbestos (100m)				n/a	n/a
Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)				n/a	n/a
Electricity Generation (100m)				n/a	n/a
Electricity Sub-Station (100m)				n/a	n/a
Gas Industry (100m)				n/a	n/a
Gas Storage (100m)				n/a	n/a
Gas Use (100m)				n/a	n/a
Oil Industry (100m)				n/a	n/a
Oil Storage (100m)				n/a	n/a
Oil Use (100m)				n/a	n/a
Paint based Oils (100m)				n/a	n/a
Paraffin (100m)				n/a	n/a
Petrol and Diesel Industry (100m)				n/a	n/a
Petrol and Diesel Storage (100m)				n/a	n/a
Petrol and Diesel Use (100m)				n/a	n/a
Potential Fuel Gas (100m)				n/a	n/a
Potential Fuel Oil (100m)				n/a	n/a
Potential Fuel Use (100m)				n/a	n/a
Potential Petrol and Diesel (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Potentially Fuel-related Tanks (100m)				n/a	n/a
Underground Fuel Tanks (100m)				n/a	n/a
Historical Land Use Information					
Former Marshes					
Historical Flood Liabilities	pg 1				1
Potentially Contaminative Industrial Uses (Past Land Use)	pg 1		13	11	28
Potentially Infilled Land (Non-Water)	pg 3		6	4	6
Potentially Infilled Land (Water)	pg 4		3		2

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Tanks and Energy Facilities					
Electrical Sub Station Facilities (100m)	pg 5		2	n/a	n/a
Electricity Industry Facilities (100m)				n/a	n/a
Gas Industry Facilities (100m)				n/a	n/a
Gas Monitoring Facilities (100m)				n/a	n/a
Miscellaneous Power Facilities (100m)				n/a	n/a
Oil Industry Facilities (100m)				n/a	n/a
Petroleum Storage Facilities (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Tanks (100m)				n/a	n/a

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Historical Flood Liabilities Use: Area liable to flood Date of Mapping: 1869	D2NE (E)	647	1	561386 174301
2	Potentially Contaminative Industrial Uses (Past Land Use) Use: General quarrying Date of Mapping: 1898 - 1962	D2NW (SE)	11	1	561002 174090
3	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D2SW (S)	18	1	561049 173881
4	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1869 - 1991	D6SW (N)	19	1	560877 174745
5	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1962	D2SW (S)	20	1	561069 173886
6	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1946	D5SW (NW)	21	1	560411 174712
7	Potentially Contaminative Industrial Uses (Past Land Use) Use: Heap, unknown constituents Date of Mapping: 1991	D2NW (SE)	25	1	560912 174377
8	Potentially Contaminative Industrial Uses (Past Land Use) Use: Cement, lime & plaster products [manufacture] Date of Mapping: 1869 - 1946	D5NE (NW)	26	1	560499 174789
9	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1869 - 1898	D5NE (NW)	31	1	560455 174802
10	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1961 - 1991	D5NW (NW)	53	1	560446 174809
11	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1991	D5SW (NW)	98	1	560237 174743
12	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910	D2NE (SE)	162	1	561165 174333
13	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D1SE (SW)	208	1	560601 173972
14	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1946	D2SE (SE)	240	1	561414 173892
15	Potentially Contaminative Industrial Uses (Past Land Use) Use: Cemetery or Graveyard Date of Mapping: 1910 - 1991	D1NE (SW)	254	1	560475 174219
16	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1898 - 1910	D2SE (SE)	267	1	561167 173985
17	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1869	D2SE (SE)	310	1	561215 173994
18	Potentially Contaminative Industrial Uses (Past Land Use) Use: Military Land Date of Mapping: 1946 - 1962	D2SE (SE)	315	1	561321 173918
19	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D2NE (SE)	338	1	561269 174174
20	Potentially Contaminative Industrial Uses (Past Land Use) Use: General quarrying Date of Mapping: 1946	D2NW (S)	361	1	560875 174368
21	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1946 - 1961	D2SE (SE)	403	1	561303 174033

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898 - 1946	D5SE (W)	405	1	560592 174544
23	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D5NW (NW)	406	1	560411 174917
24	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1869	D9SW (NW)	454	1	560180 175161
25	Potentially Contaminative Industrial Uses (Past Land Use) Use: Gas manufacture & distribution Date of Mapping: 1910	D9SW (NW)	481	1	560316 175211
26	Potentially Contaminative Industrial Uses (Past Land Use) Use: Cement, lime & plaster products [manufacture] Date of Mapping: 1946	D3SW (SE)	538	1	561479 174007
27	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910	D9SW (NW)	542	1	560334 175287
28	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1962	D2SE (SE)	545	1	561455 174054
29	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1910	D6SE (E)	557	1	561171 174591
30	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1910 - 1961	D5NE (NW)	580	1	560580 175030
31	Potentially Contaminative Industrial Uses (Past Land Use) Use: Heap, unknown constituents Date of Mapping: 1991	D6SW (S)	605	1	560833 174474
32	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898 - 1946	D6SW (E)	609	1	560851 174474
33	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D6SW (SW)	611	1	560812 174434
34	Potentially Contaminative Industrial Uses (Past Land Use) Use: General quarrying Date of Mapping: 1910	D3SW (SE)	618	1	561557 174006
35	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1910	D3NW (SE)	644	1	561615 174106
36	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1961 - 1991	D6NW (N)	710	1	560809 174900
37	Potentially Contaminative Industrial Uses (Past Land Use) Use: Paper packaging products [manufacture] Date of Mapping: 1898 - 1946	D6NW (N)	725	1	560806 174911
38	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D6SW (N)	727	1	560883 174756
39	Potentially Contaminative Industrial Uses (Past Land Use) Use: Military Land Date of Mapping: 1991	D5NE (N)	729	1	560756 174781
40	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D6NW (N)	742	1	561025 175016
41	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1898	D6SW (NE)	793	1	561061 174632
42	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1961	D9NW (NW)	851	1	560121 175632

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1869	D9NW (NW)	852	1	560127 175631
44	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1898 - 1910	D9NW (NW)	855	1	560116 175638
45	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1991	D6SE (E)	856	1	561376 174560
46	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1872 - 1991	D6SW (NE)	873	1	561058 174706
47	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1946	D3SE (E)	879	1	561886 174064
48	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1898 - 1962	D6SW (NE)	889	1	561124 174729
49	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1962 - 1991	D6SE (NE)	898	1	561144 174698
50	Potentially Contaminative Industrial Uses (Past Land Use) Use: Road haulage Date of Mapping: 1872	D7SW (E)	904	1	561530 174514
51	Potentially Contaminative Industrial Uses (Past Land Use) Use: Sewage Date of Mapping: 1946 - 1994	D9NE (N)	932	1	560576 175576
52	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1910 - 1962	D6SW (N)	942	1	560928 174744
53	Potentially Contaminative Industrial Uses (Past Land Use) Use: General quarrying Date of Mapping: 1898 - 1938	D3NE (E)	983	1	561829 174282
54	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D2NW (S)	13	1	560941 174124
55	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D2SW (S)	20	1	561069 173886
56	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D5NE (NW)	31	1	560455 174802
57	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D5SW (NW)	56	1	560411 174712
58	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D2NE (SE)	171	1	561165 174333
59	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D1SE (SW)	208	1	560601 173972
60	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D2SE (SE)	267	1	561423 173901
61	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D2NW (S)	361	1	560875 174368
62	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D5SE (W)	405	1	560592 174544
63	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	D5NW (NW)	406	1	560411 174917

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	D9SW (NW)	542	1	560334 175287
65	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	D5NE (NW)	580	1	560580 175030
66	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D6SW (E)	609	1	560851 174474
67	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D3SW (SE)	618	1	561557 174006
68	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	D6SW (N)	727	1	560883 174756
69	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	D6NW (NE)	742	1	561066 174994
70	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1872	D1SE (S)	134	1	560629 173894
71	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	D1SE (SW)	142	1	560570 173902
72	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	D1SE (SW)	229	1	560564 173989
73	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	D3SW (SE)	790	1	561765 173915
74	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	D9NW (NW)	809	1	560276 175571

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	Electrical Sub Station Facilities Scale of Mapping: 1:2,500 Date of Mapping: 1986	D1SW (SW)	11	1	560426 173752
76	Electrical Sub Station Facilities Scale of Mapping: 1:2,500 Date of Mapping: 1986	D1SW (SW)	44	1	560178 173785

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

1:10,560	Mapsheet	Published Date
Kent	003A_00	1869
Kent	010_00	1869
Essex	088_00	1872
Essex	083_00	1873
Kent	010_NW	1898
Essex	083_SE	1898
Essex	088_NE	1898
Kent	003A_SW	1899
Kent	003A_SW	1910
Kent	010_NW	1910
Essex	095_NE	1923
Essex	095_NW	1923
Essex	095_SE	1923
Essex	095_SW	1923
Kent	003A_SW	1938
Essex	095_NE	1938
Essex	095_NW	1938
Essex	095_SE	1938
Kent	010_NW	1946
Ordnance Survey Plan	TQ67NW	1961
Ordnance Survey Plan	TQ67SW	1962
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	TQ67SW	1991
Ordnance Survey Plan	TQ67NW	1994

The following mapping has been analysed for Historical Tanks and Energy Facilities:

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	TQ6074	1954
Ordnance Survey Plan	TQ6074	1954
Ordnance Survey Plan	TQ6174	1954
Ordnance Survey Plan	TQ6073	1961
Ordnance Survey Plan	TQ6073	1961
Ordnance Survey Plan	TQ6173	1961
Ordnance Survey Plan	TQ6073	1970
Ordnance Survey Plan	TQ6073	1970
Ordnance Survey Plan	TQ6173	1970
Ordnance Survey Plan	TQ6073	1986
Ordnance Survey Plan	TQ6073	1986
Ordnance Survey Plan	TQ6173	1986
1:1,250	Mapsheet	Published Date
Ordnance Survey Plan	TQ6074SE	1953
Ordnance Survey Plan	TQ6074SE	1953
Ordnance Survey Plan	TQ6074SW	1953
Ordnance Survey Plan	TQ6174SW	1953
Ordnance Survey Plan	TQ6074SE	1961
Ordnance Survey Plan	TQ6074SE	1961
Ordnance Survey Plan	TQ6074SW	1971
Ordnance Survey Plan	TQ6074SE	1973
Ordnance Survey Plan	TQ6074SE	1973
Ordnance Survey Plan	TQ6174SW	1973

Contact	Name and Address	Contact Details
1	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmark.co.uk

Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.

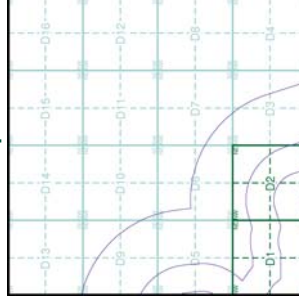
Historical Building Plans

Area Cleared due to Enemy Action

Historical Land Use

- Former Marsh
- Historical Flood Liability
- Historical Flood Liability (Location)
- Potentially Contaminative Industrial Use (Past Land Use)
- Potentially Contaminative Industrial Use (Past Land Use) (Linear)
- Potentially Contaminative Industrial Use (Past Land Use) (Location)
- Potentially Infilled Land (Non-Water)
- Potentially Infilled Land (Non-Water) (Linear)
- Potentially Infilled Land (Non-Water) (Location)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water) (Linear)
- Potentially Infilled Land (Water) (Location)

Historical Data Report - Slice Map D

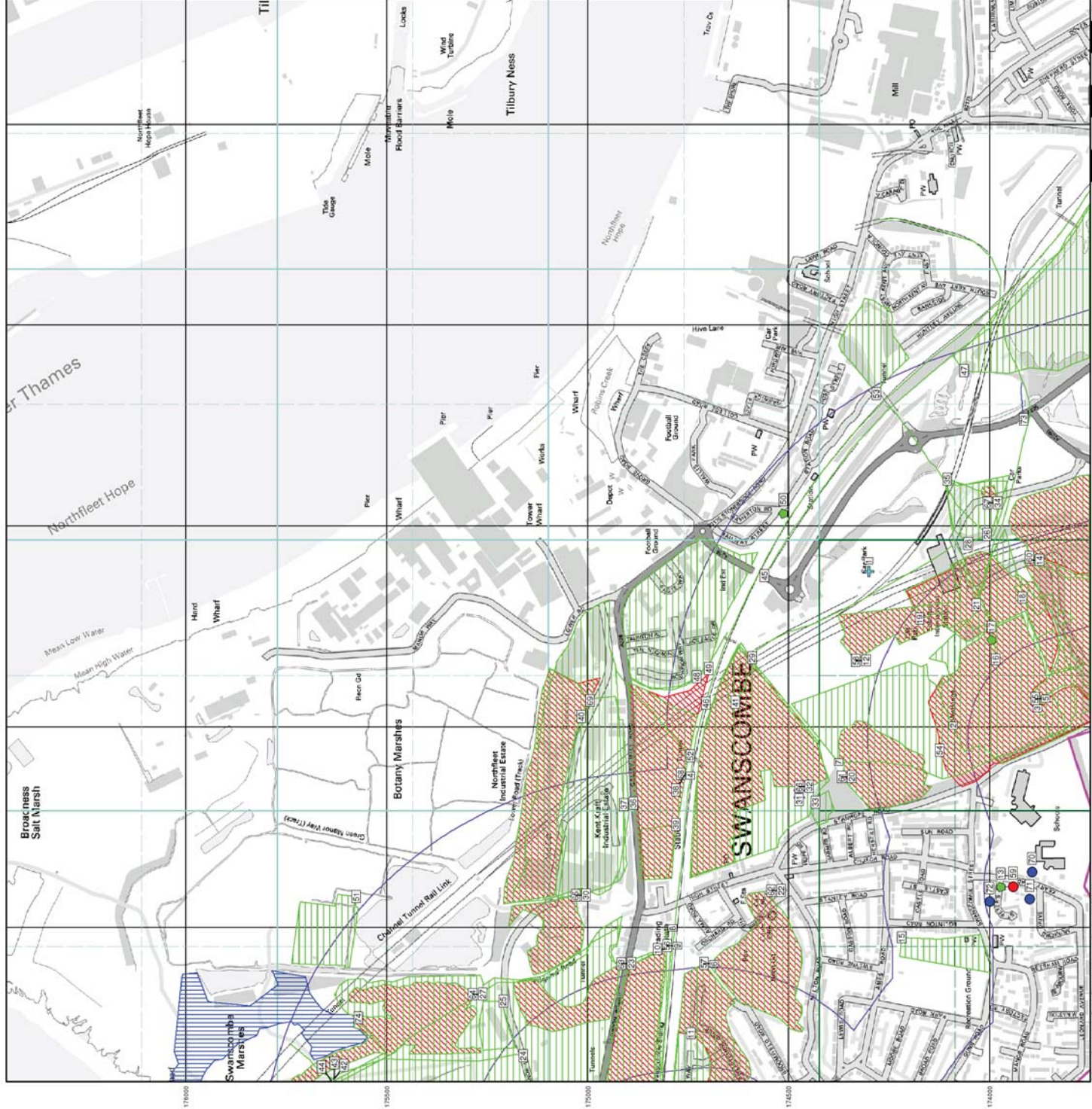


Order Details

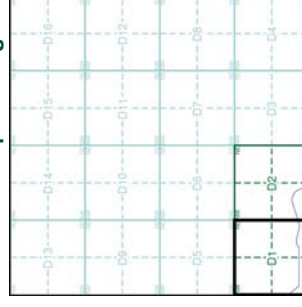
Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Historical Data Report - Segment D1



Order Details

Order Number: 89304408 - 1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Site: D
Site Area (Ha): 272.38
Plot Buffer (m): 100

Site Details

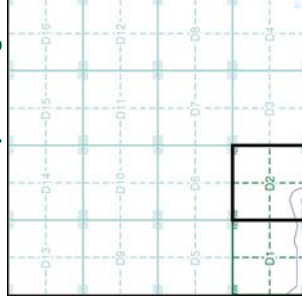
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Historical Building Plans
Area Cleared due to Enemy Action

Historical Tanks and
Energy Facilities

- Asbestos
- Above Ground Fuel Tanks
- Benzene/Benzocyclohexene
- Napthalene/Kerosene
- Electricity Generation
- Electricity Sub-Stations
- Gas Industry
- Gas Storage
- Gas Use
- Oil Industry
- Oil Storage
- Oil Use
- Paint based Oils
- Paraffin
- Petrol and Diesel Industry
- Petrol and Diesel Storage
- Petrol and Diesel Use
- Potential Fuel Gas
- Potential Fuel Oil
- Potential Fuel Use
- Potential Petrol and Diesel
- Potential Tanks
- Potentially Fuel-related Tanks
- Underground Fuel Tanks

Historical Data Report - Segment D2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Site Area (Ha): 272.38
Plot Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit	Sand Pit	Other Pits
Quarry	Shingle	Orchard
Osiers	Reeds	Marsh
Mixed Wood	Deciduous	Brushwood
Fir	Furze	Rough Pasture
Arrow denotes flow of water	Trigonometrical Station	
Site of Antiquities	Bench Mark	
Pump, Guide Post, Signal Post	Well, Spring, Boundary Post	
Surface Level		
Sketched Contour	Instrumental Contour	
Main Roads	Minor Roads	
Sunken Road	Raised Road	
Road over Railway	Railway over River	
Railway over Road	Level Crossing	
Road over River or Canal	Road over Stream	
Road over Stream		
County Boundary (Geographical)		
County & Civil Parish Boundary		
Administrative County & Civil Parish Boundary		
County Borough Boundary (England)		
County Borough Boundary (Scotland)		
Rural District Boundary		
Civil Parish Boundary		

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry	Gravel Pit	
Sand Pit	Disused Pit or Quarry	
Refuse or Slag Heap	Lake, Loch or Pond	
Dunes	Boulders	
Coniferous Trees	Non-Coniferous Trees	
Orchard	Scrub	Coppice
Bracken	Heath	Rough Grassland
Marsh	Reeds	Saltings
Building		
Glasshouse		
Sloping Masonry	Pylon	Electricity Transmission Line
Cutting	Embankment	
Road Under	Road Over	
Level Crossing	Foot Bridge	
Siding, Tramway or Mineral Line		
Narrow Gauge		
Geographical County		
Administrative County, County Borough or County of City		
Municipal Borough, Urban or Rural District, Borough or District Council		
Borough, Burgh or County Constituency		
Civil Parish		
Shown alternately when coincidence of boundaries occurs		
BP, BS	Boundary Post or Stone	Police Station
Ch	Church	PO
CH	Club House	PC
F E Sta	Fire Engine Station	PH
FB	Foot Bridge	SB
Fn	Fountain	Spr
GP	Guide Post	TCB
MP	Mail Post	Telephone Call Box
MS	Mile Stone	TCP
		W

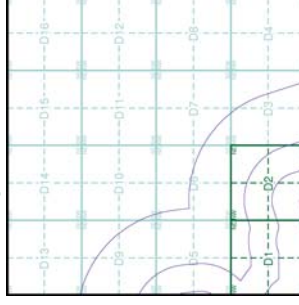
1:10,000 Raster Mapping

Gravel Pit	Refuse tip or slag heap
Rock	Rock (scattered)
Boulders	Boulders (scattered)
Shingle	Mud
Sand	Sand Pit
Slopes	Top of cliff
General detail	Underground detail
Overhead detail	Narrow gauge railway
Multi-track railway	Single track railway
County boundary (England only)	Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary	Constituency boundary
Area of wooded vegetation	Non-coniferous trees
Non-coniferous trees (scattered)	Coniferous trees
Coniferous trees (scattered)	Positioned tree
Orchard	Coppice or Osiers
Rough Grassland	Heath
Scrub	Marsh, Salt Marsh or Reeds
Water feature	Flow arrows
Mean high water (springs)	Mean low water (springs)
Telephone line (where shown)	Electricity transmission line (with poles)
Bench mark (where shown)	Triangulation station
Point feature (e.g. Guide Post or Mile Stone)	Pylon, flare stack or lighting tower
Site of (antiquity)	Glasshouse
General Building	Important Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:10,560	1869	2
Essex	1:10,560	1872 - 1873	3
Kent	1:10,560	1888	4
Essex	1:10,560	1888 - 1889	5
Kent	1:10,560	1910	6
Essex	1:10,560	1923	7
Kent	1:10,560	1932	8
Essex	1:10,560	1938	9
Kent	1:10,560	1938	10
Essex	1:10,560	1938	11
Kent	1:10,560	1950 - 1951	12
Ordnance Survey Plan	1:10,000	1961 - 1962	13
Ordnance Survey Plan	1:10,000	1966	14
Ordnance Survey Plan	1:10,000	1973 - 1974	15
Ordnance Survey Plan	1:10,000	1980 - 1984	16
Ordnance Survey Plan	1:10,000	1991 - 1993	17
Ordnance Survey Plan	1:10,000	1994	18
10K Raster Mapping	1:10,000	1999	19
Street View	1:10,000	2015	20

Historical Map - Slice D



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

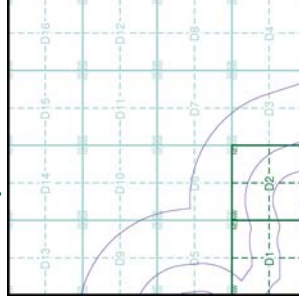
Barton Wilmore, The Observatory, Southfleet Road, SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey maps of the country were published. These maps were used to update the 1:10,560 maps. The published data from the maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003A00	1869	1:10,560
01000	1869	1:10,560

Historical Map - Slice D



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF





Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

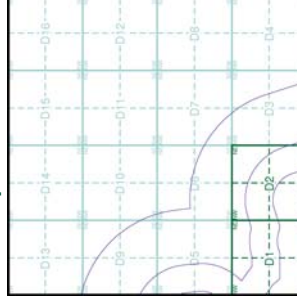
Site Details
Barton Willmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey (OS) began publishing maps of the country. These maps are used to update the 1:10,560 maps. The published data is then used to update the maps. The maps are based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

083SE	1898	1:10,560
08BNE	1898	1:10,560

Historical Map - Slice D



Order Details

Order Number: 893040408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Kent

Published 1898 - 1899

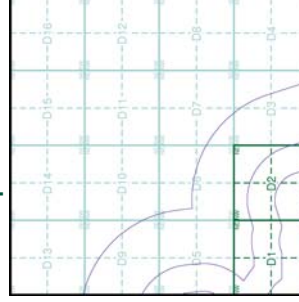
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey was established and the first 1:10,560 scale maps were used to update the 1:10,560 maps. The published data from these maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003ASW	1899	1:10,560
010NW	1898	1:10,560

Historical Map - Slice D

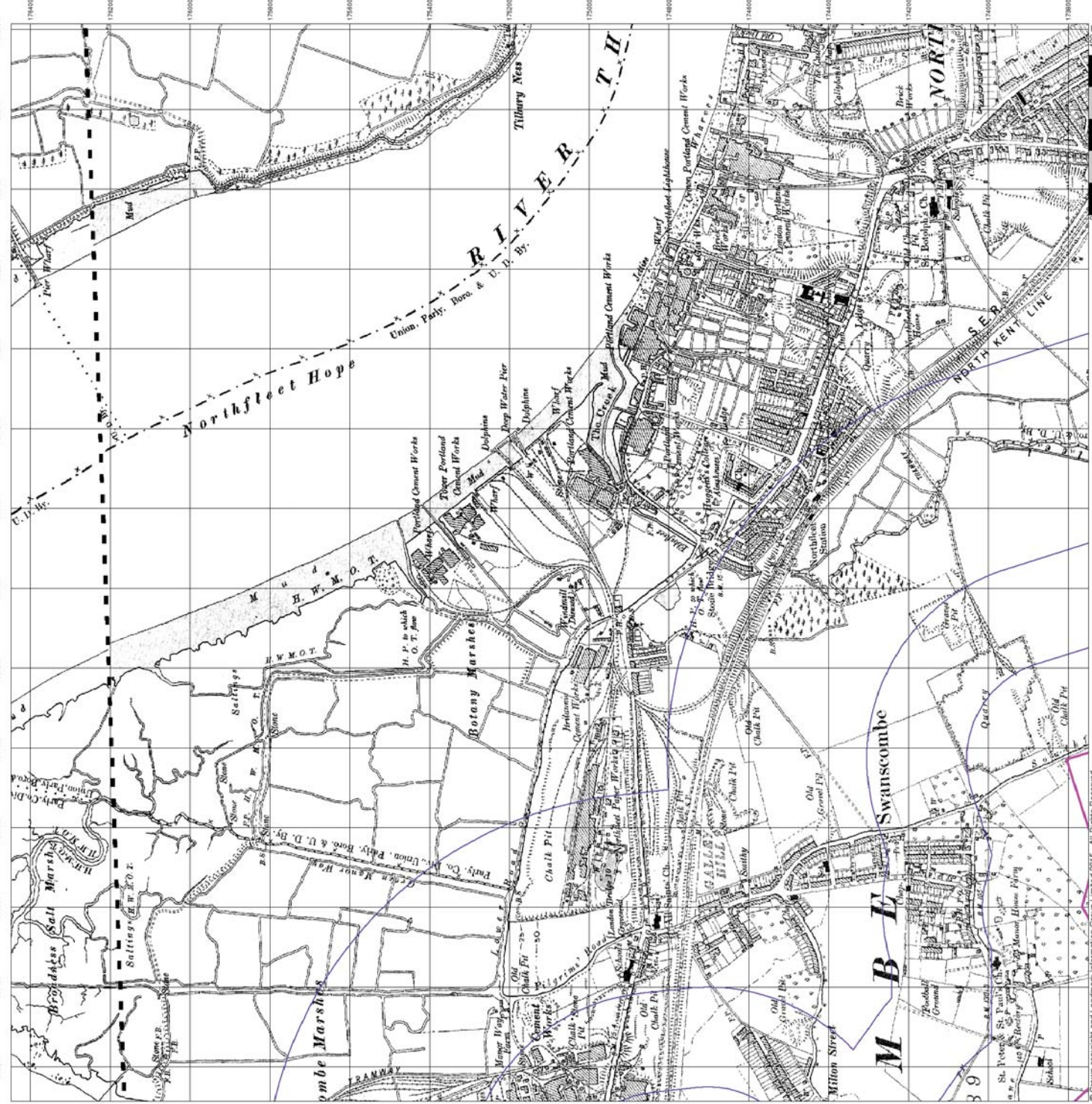


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

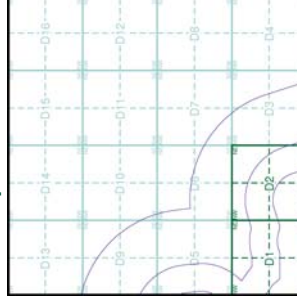


The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854, the Ordnance Survey (OS) began to publish maps of the United Kingdom. These maps were used to update the 1:10,560 maps. The published data from these maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003ASW	1910	1:10,560
010NW	1910	1:10,560

Historical Map - Slice D

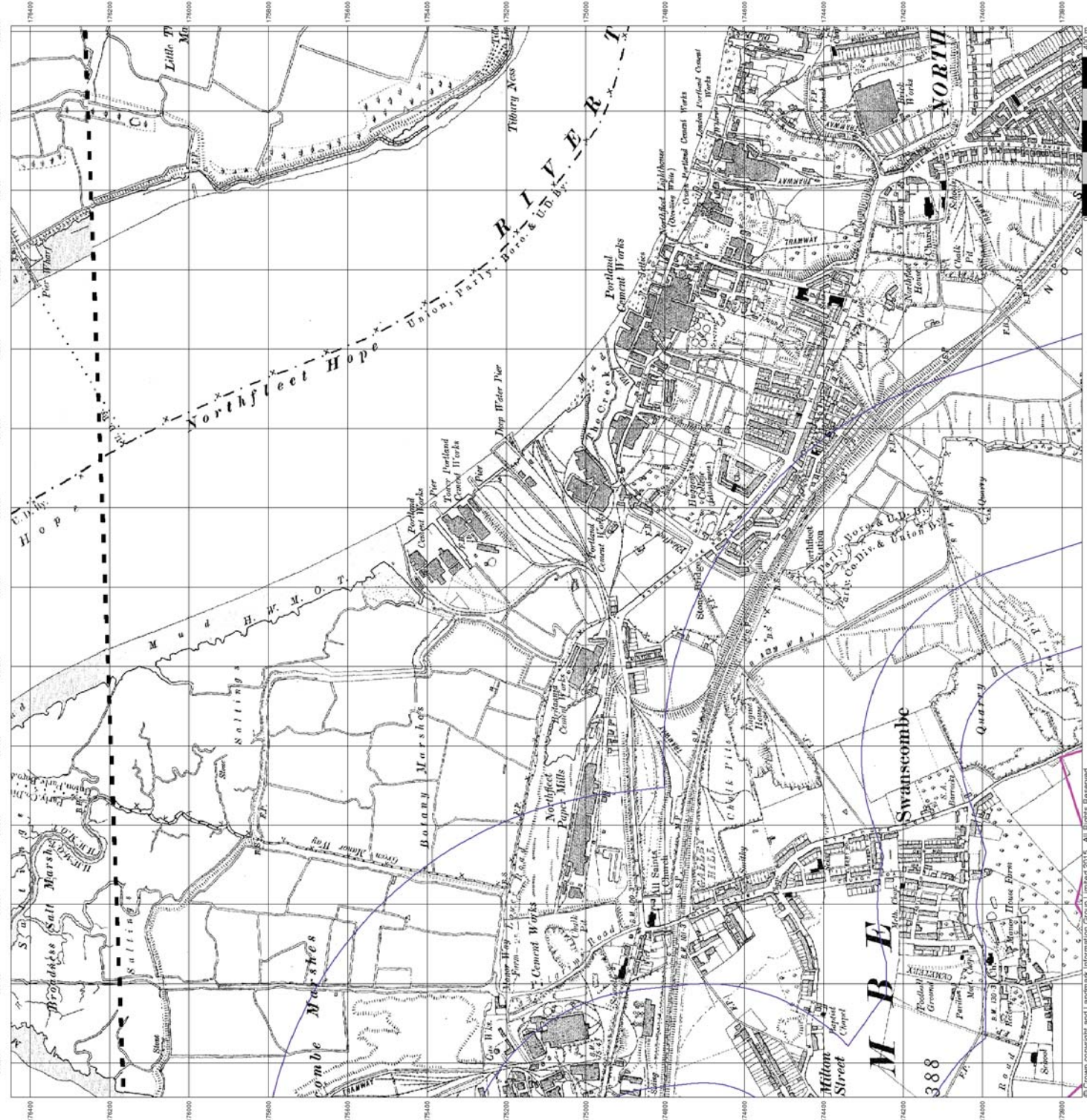


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Essex

Published 1923

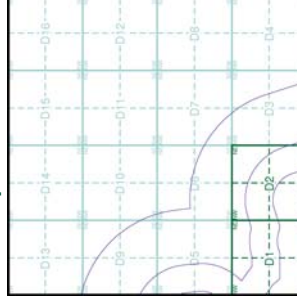
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey (OS) was established and the first OS maps were used to update the 1:10,560 maps. The published data from the OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

065NW	1923	1:10,560
065NE	1923	1:10,560
065SW	1923	1:10,560
065SE	1923	1:10,560

Historical Map - Slice D

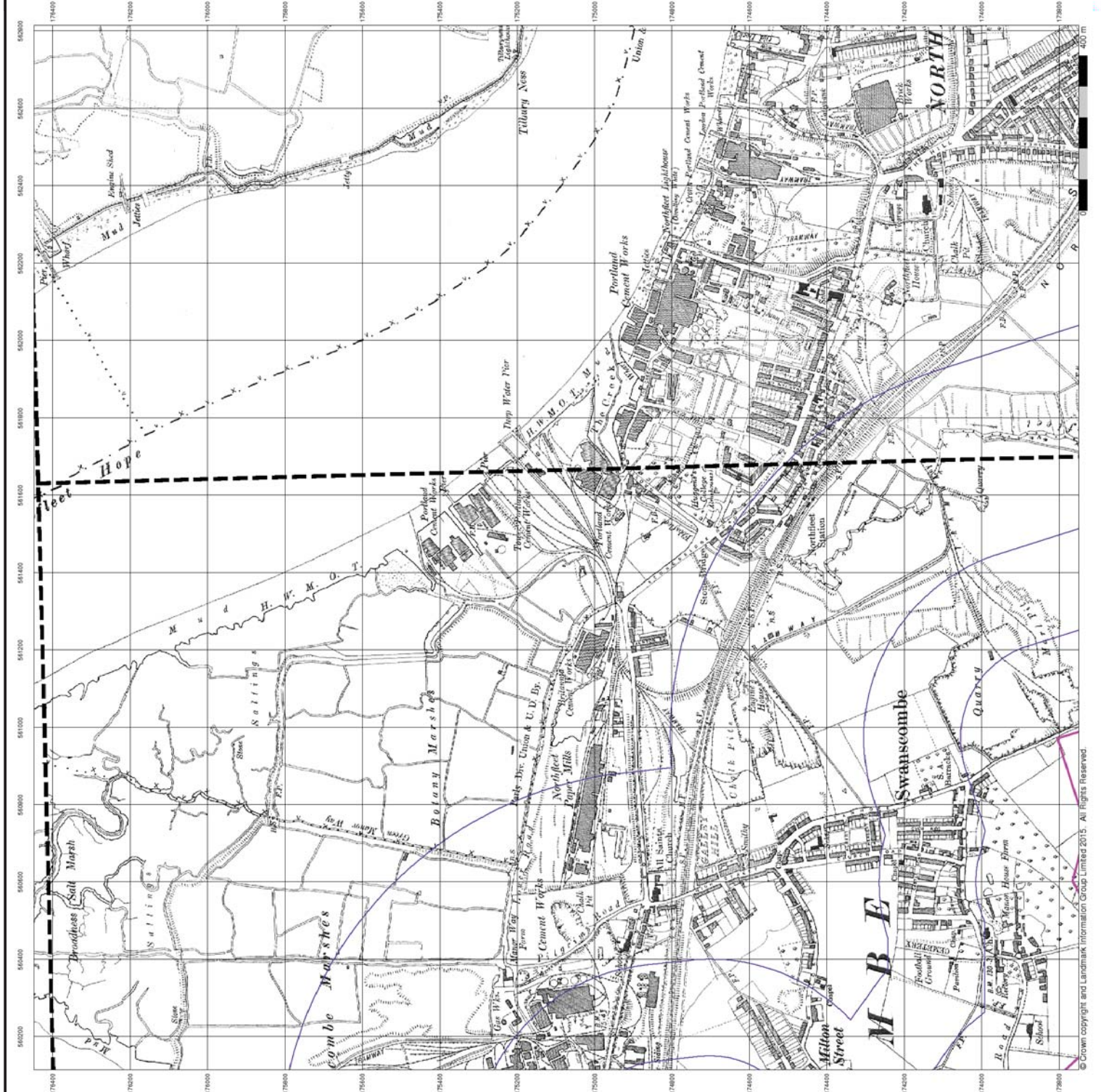


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Kent

Published 1932

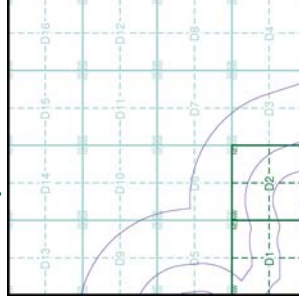
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840's. In 1854 a scale of 1:10,560 was adopted for the Ordnance Survey maps. These maps are used to update the 1:10,560 maps. The published data is then the data as often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice D

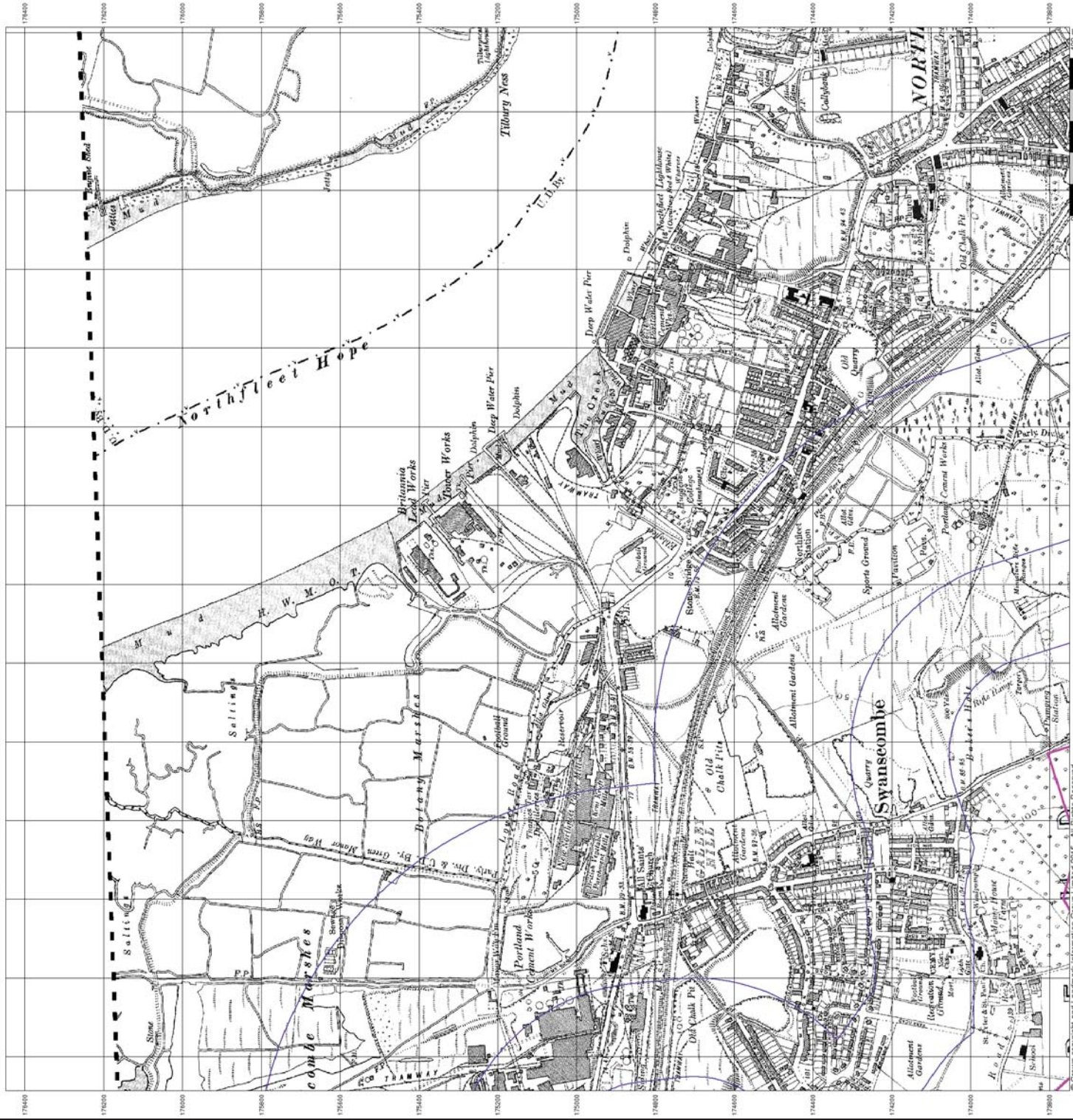


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

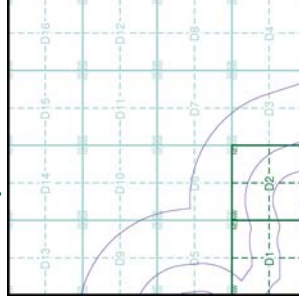


The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:10,560 scale was adopted for the Ordnance Survey maps. These maps are used to update the 1:10,560 maps. The published data is then the data as it was some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear 'unfinished' - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003ASW	1938	1:10,560
010NW	1938	1:10,560

Historical Map - Slice D

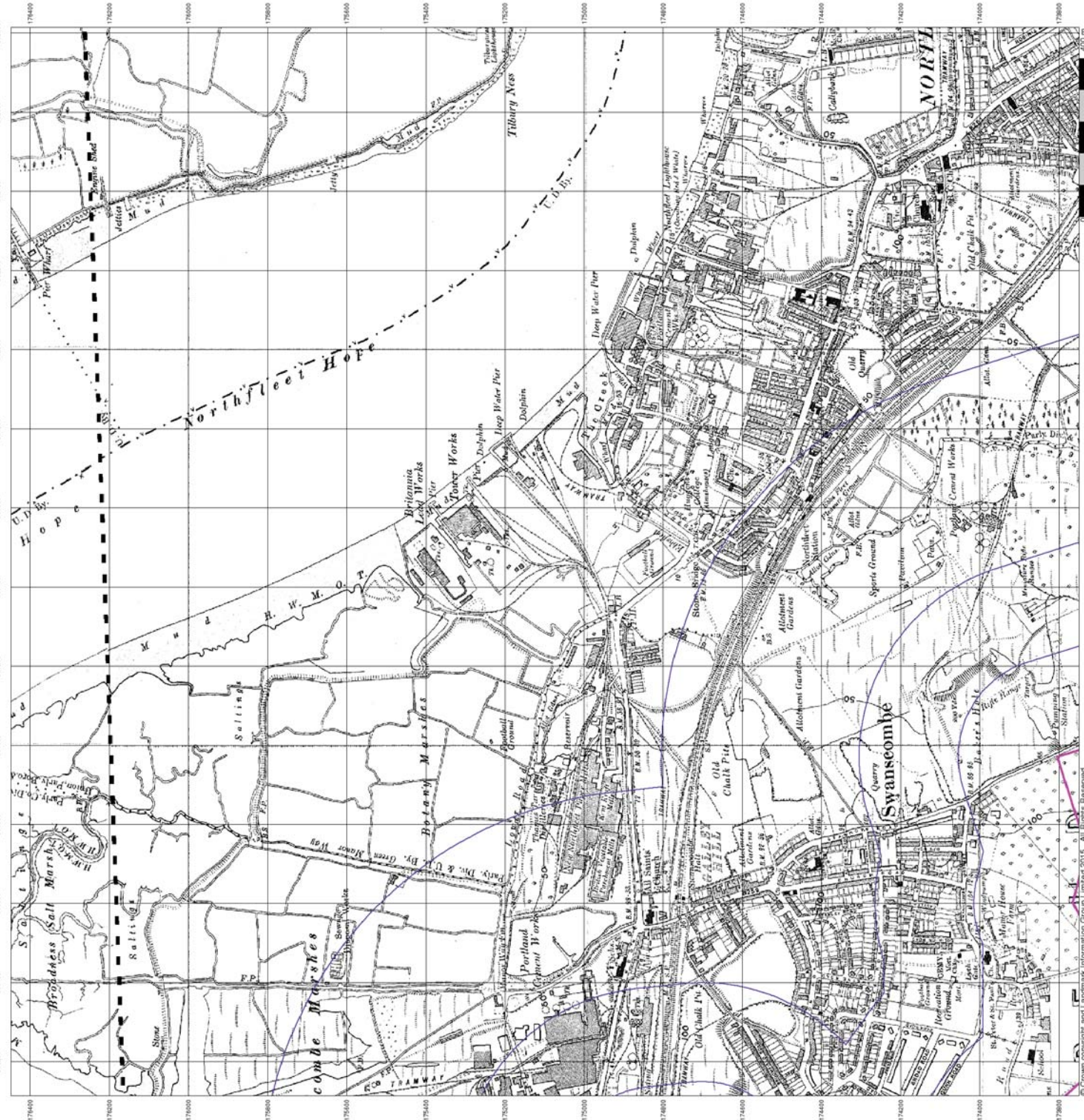


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

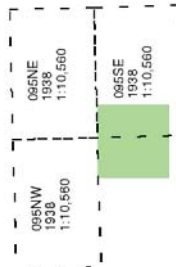
Site Details

Barnton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

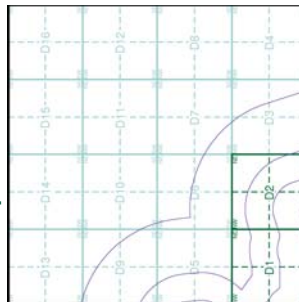


The historical maps shown were reproduced from maps predominantly held at the state archives for England, Wales and Scotland in the 1940's or in 1954 when the 2,500 copies for mapping inland areas, these maps were then updated to reflect the 1950 census. The maps were produced in 1950, 1955 and 1960, often years later than the census date. Before 1938, all OS maps were based on the Cassin Projection, which allowed surveys of a single country or group of counties, giving rise to significant inaccuracies in culling the data. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished – with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:11,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
D
Slice:
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Essex

Published 1938

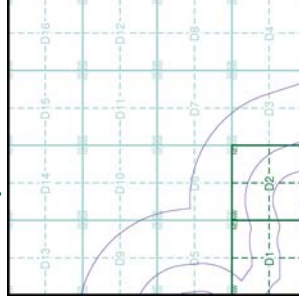
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940's. In 1854 the Ordnance Survey began publishing maps of Great Britain. The maps are used to update the 1:10,560 maps. The published data is then used to update the maps. The maps are based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

095NW	095NE
1938	1938
1:10,560	1:10,560
	095SE
	1938
	1:10,560

Historical Map - Slice D



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Kent

Published 1950 - 1951

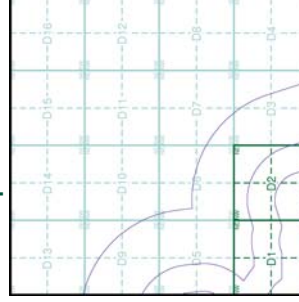
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at 1:25,000 scale adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey (OS) introduced a new series of maps, the 1:50,000 maps, which were used to update the 1:25,000 maps. The published data on these maps is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

003ASW	1950	1:10,560
010NW	1951	1:10,560

Historical Map - Slice D

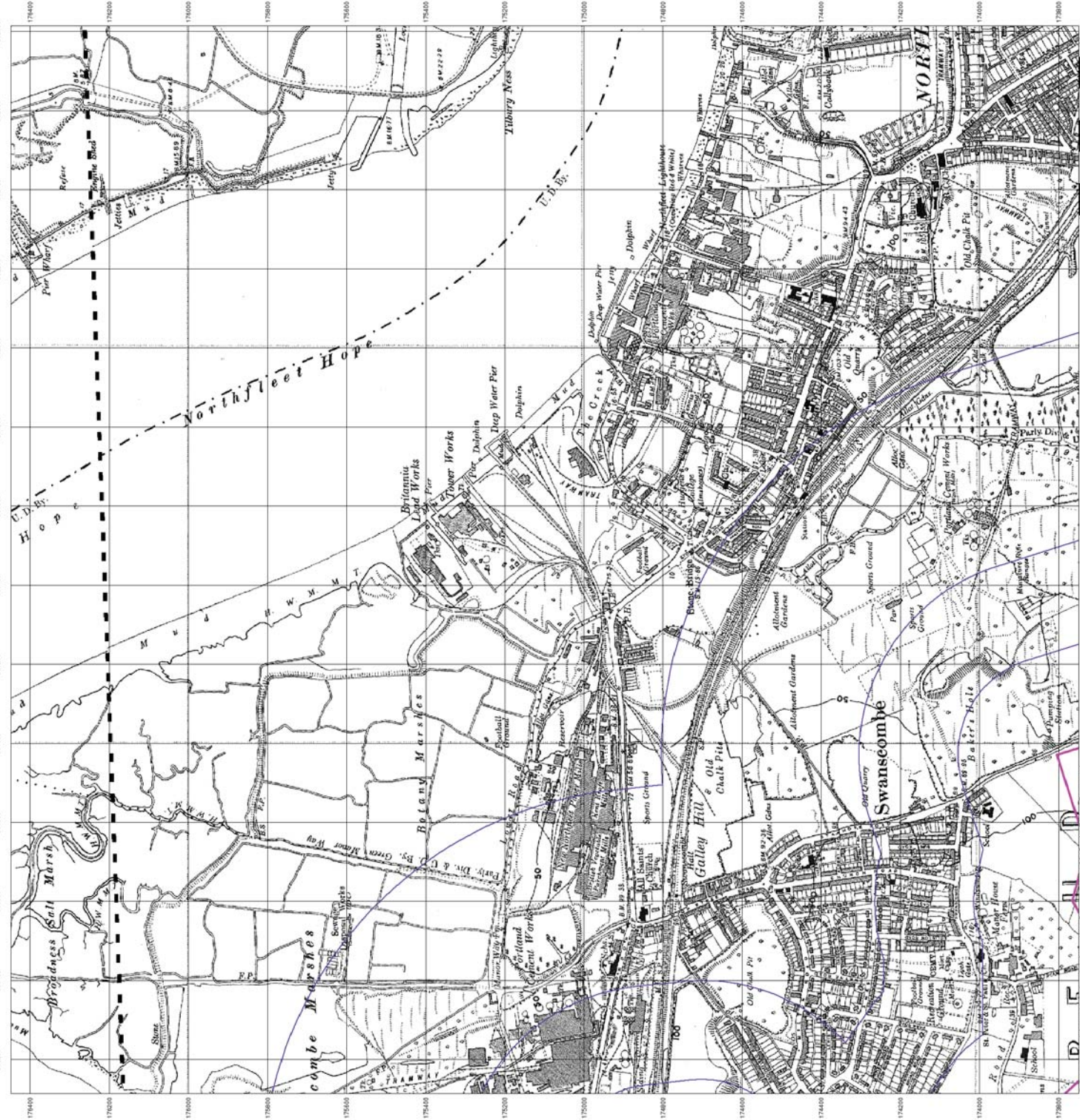


Order Details

Order Number: 8930408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan Published 1961 - 1962

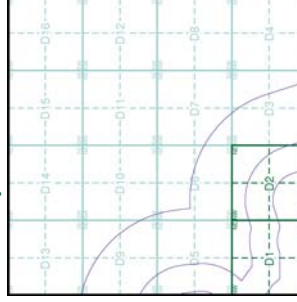
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:10,000 scale maps were produced. These maps were used to update the 1:10,000 maps. The published data is then the data often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in cutting county or group of counties, giving rise to significant inaccuracies in cutting areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

---	TQ67NW	1961
---	1:10 560	
---	TQ67SW	1962
---	1:10 560	

Historical Map - Slice D



Order Details

Order Number: 893040408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan Published 1973 - 1974

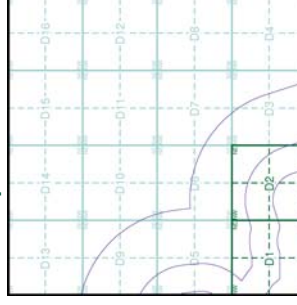
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 a new series of maps was published, the 1:10,000 scale maps. These maps are used to update the 1:10,000 maps. The published data from the maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

---	TQ67NW	1974
---	1:10,000	
---	TQ67SW	1973
---	1:10,000	

Historical Map - Slice D

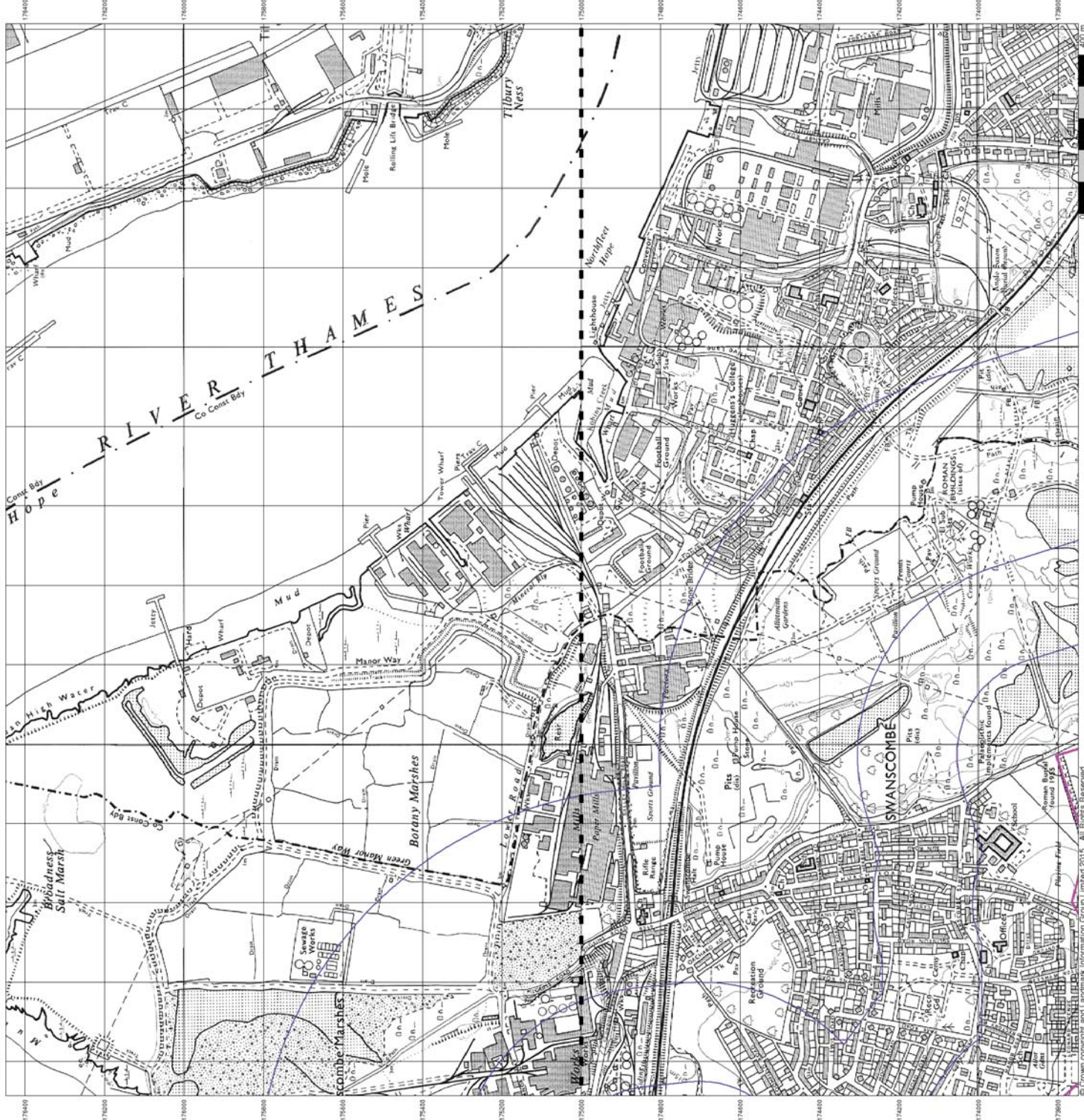


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1991 - 1993

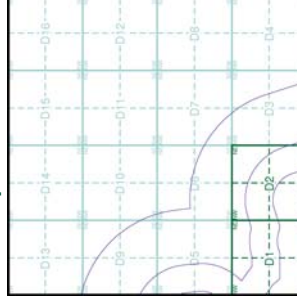
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940's. In 1854, the Ordnance Survey began to publish maps. The maps were used to update the 1:10,000 maps. The published data is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

---	TQ67NW	1993
---	1:10,000	
---	TQ67SW	1991
---	1:10,000	

Historical Map - Slice D



Order Details

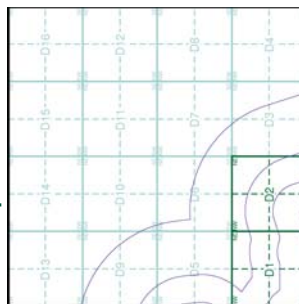
Order Number: 8930408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Historical Map - Slice D



Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Street View

Published 2015

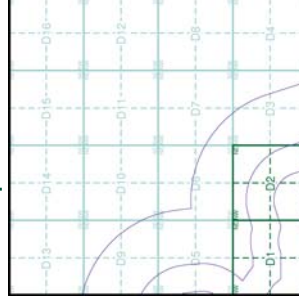
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

TO67NW	2015	1:10,000
TO67SW	2015	1:10,000

Street View Map - Slice D



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Historical Mapping Legends

Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500

Quarry	Gravel Pit	Sand Pit	Refuse Heap	Flat Rock
Clay Pit	Shingle			
Sloping Masonry				
Marsh	Reeds	Ostlers	Wood	
Rough Pasture	Furze			
Mixed Wood	Brushwood	Orchard	Stepping Stones	Lock
Fir	Ford	Waterfall		
Ferry				
Trig. Station	507 Δ	Altitude at Trig. Station		
B.M. 325.9 ↑	Bench Mark	342 +	Surface Level	
Arrow denotes flow of water				
Antiquities (site of)				
Cutting				
Enbankment				
Railway crossing Road				
Road crossing Railway				
Level Crossing				
Road over single stream				
Road over River or Canal				
County Boundary (Geographical)				
County & Civil Parish Boundary				
Administrative County & Civil Parish Boundary				
County Borough Boundary (England)				
County Borough Boundary (Scotland)				
Boundary Post or Stone	P.C.B.	Police Call Box		
B.R.	Bridge Road	P	Pump	
E.P.	Electricity Pylon	S.P.	Signal Post	
F.B.	Foot Bridge	S.L.	Sluice	
F.P.	Foot Path	S.P.	Spring	
G.P.	Guide Post or Board	T.C.B.	Telephone Call Box	
M.S.	Mill Stone	T.T.	Trough	
M.P.	Measuring Post or Ring	W	Well	

Ordnance Survey Plan, Additional SIMs and
Supply of Unpublished Survey Information
1:2,500 and 1:1,250

Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit	Boulders	Slopes	Top
Rock				
Cliff				
Roofed Building	Glazed Roof Building	Archway		
Sloping Masonry				
Non-Coniferous Tree (surveyed)	Coniferous Tree (surveyed)	Bracken		
Non-Coniferous Trees (not surveyed)	Coniferous Trees (not surveyed)	Marsh, Saltings		
Orchard Tree	Scrub	Heath		
Copple, Osier	Reeds	Culvert		
Rough Grassland				
Direction of water flow	Bench Mark	Antiquity (site of)		
Cave Entrance	Triangulation Station	Electricity Pylon		
ETL	Electricity Transmission Line			
County Boundary (Geographical)				
County & Civil Parish Boundary				
Civil Parish Boundary				
Admin. County or County Bor. Boundary				
London Borough Boundary				
Symbol marking point where boundary mereing changes				
Beer House	P	Pillar, Pole or Post		
Boundary Post or Stone	PO	Post Office		
Capstan, Crane	PC	Public Convenience		
Chy	Chimney	PH	Public House	
D.Fn	Drinking Fountain	Pp	Pump	
E.I.P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge	
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light	
FB	Foot Bridge	Spr	Spring	
GP	Guide Post	Tk	Tank or Track	
H	Hydrant or Hydraulic	TCB	Telephone Call Box	
LC	Level Crossing	TCP	Telephone Call Post	
MH	Manhole	Tt	Trough	
MP	Mill Post or Mooring Post	W.P.L. W.T.	Water Point, Water Tap	
MS	Mill Stone	W	Well	
NL	Normal Tidal Limit	Wp	Wind Pump	

Large-Scale National Grid Data 1:2,500 and
1:1,250

Cliff	Slopes	Top	
Rock			
Boulders			
Positioned Boulder			
Non-Coniferous Tree (surveyed)	Coniferous Tree (surveyed)	Bracken	
Non-Coniferous Trees (not surveyed)	Coniferous Trees (not surveyed)	Marsh, Saltings	
Orchard Tree	Scrub	Heath	
Copple, Osier	Reeds	Culvert	
Rough Grassland			
Direction of water flow	Triangulation Station	Antiquity (site of)	
ETL	Electricity Transmission Line	Electricity Pylon	
BH 231.05m	Bench Mark	Buildings with Building Seed	
Roofed Building		Glazed Roof Building	
Civil parish/community boundary			
District boundary			
County boundary			
Boundary post/stone			
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)			
Bks	Barracks	P	Pillar, Pole or Post
By	Battery	PO	Post Office
Cem	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Pp Sta	Pumping Station
Disamd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Prg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
F.D.Fn	Fountain/Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Governor	Tr	Trough
GVC	Gas Valve Compound	Wd Pp	Wind Pump
GP	Guide Post	W.P.L. W.T.	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP	Mill Post or Mile Stone	W	Well

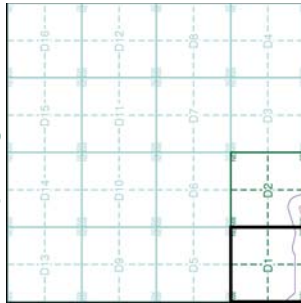


Envirocheck

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1879	2
Kent	1:2,500	1897	3
Kent	1:2,500	1909	4
Kent	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1953	6
Ordnance Survey Plan	1:2,500	1954 - 1961	7
Ordnance Survey Plan	1:1,250	1961 - 1971	8
Ordnance Survey Plan	1:2,500	1970	9
Ordnance Survey Plan	1:1,250	1973	10
Additional SIMs	1:2,500	1978	11
Additional SIMs	1:1,250	1985	12
Ordnance Survey Plan	1:2,500	1986	13
Additional SIMs	1:1,250	1990	14
Large-Scale National Grid Data	1:1,250	1992	15
Large-Scale National Grid Data	1:2,500	1992	16
Large-Scale National Grid Data	1:2,500	1993	17
Large-Scale National Grid Data	1:2,500	1995	18

Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

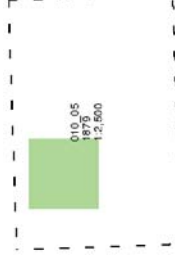
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



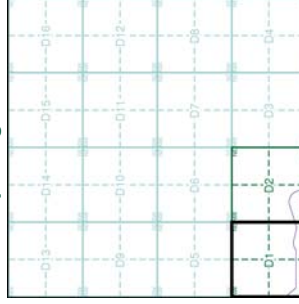
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840s. In 1854 the Ordnance Survey was established and the first edition of the 1:2,500 scale maps were published. The maps were compiled by 1896. It is important to note that the published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1

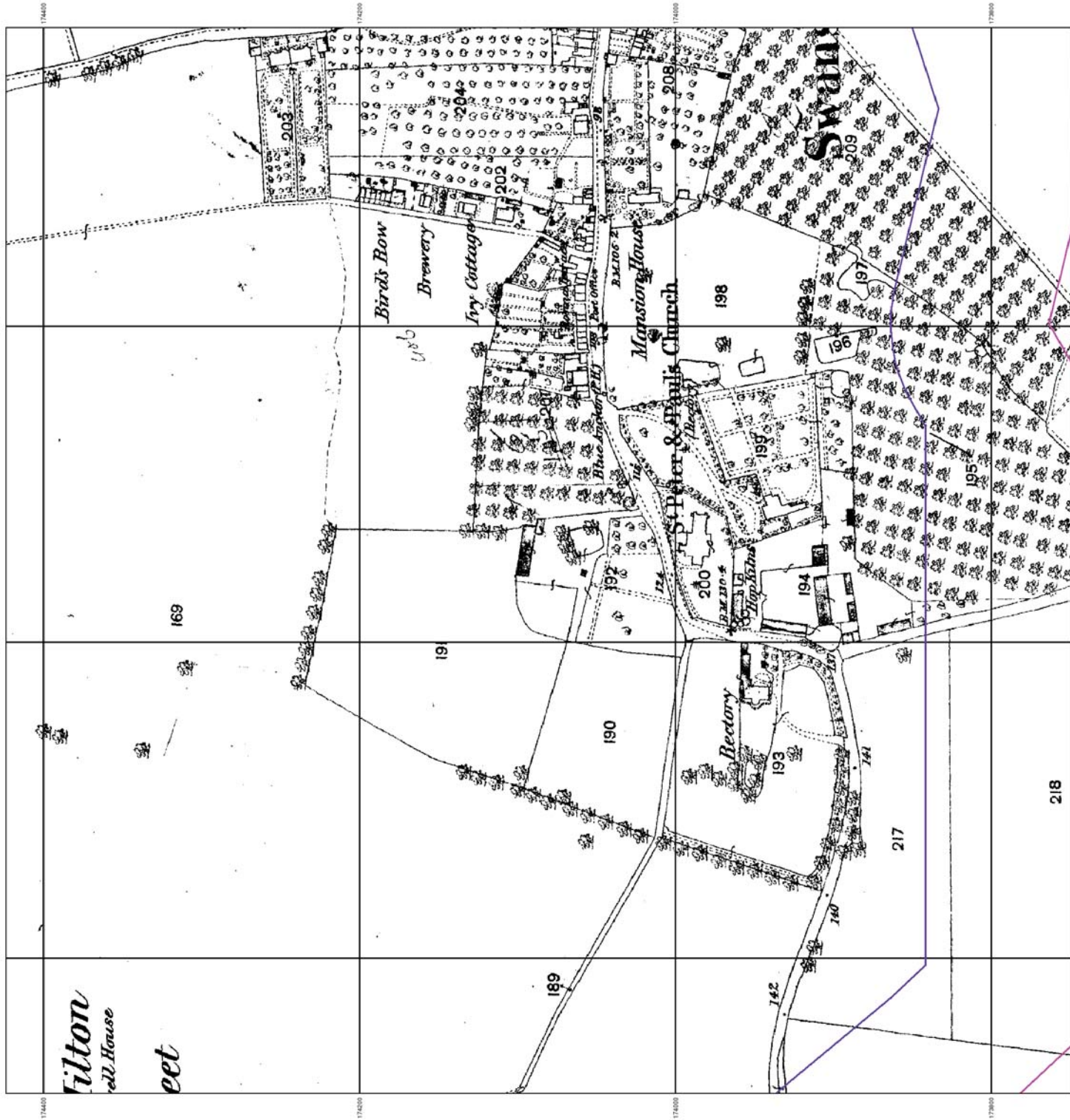


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

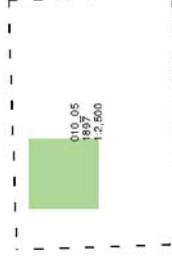
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

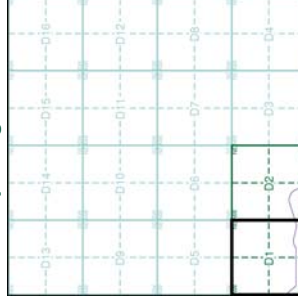


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the Ordnance Survey was created by an Act of Parliament and by 1896 it had covered the whole of what was considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1

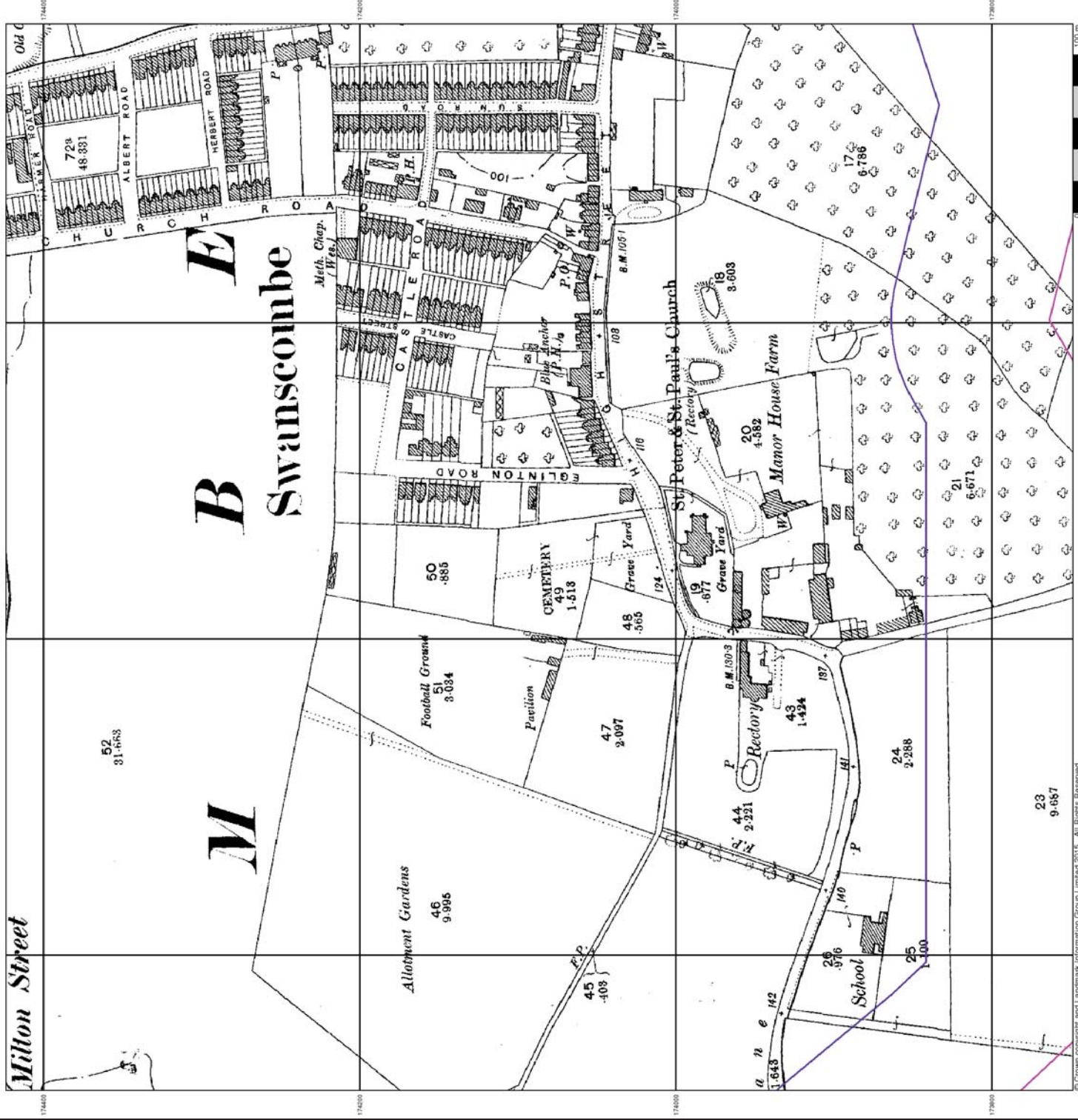


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

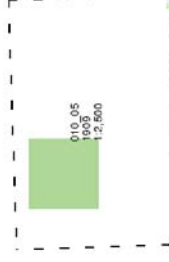
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

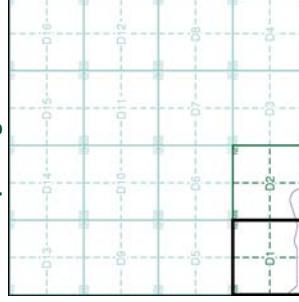


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. It is important to note that the maps were surveyed and published by 1884, and the whole of what was considered to be the populated parts of Great Britain. The published date given below is often many years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1

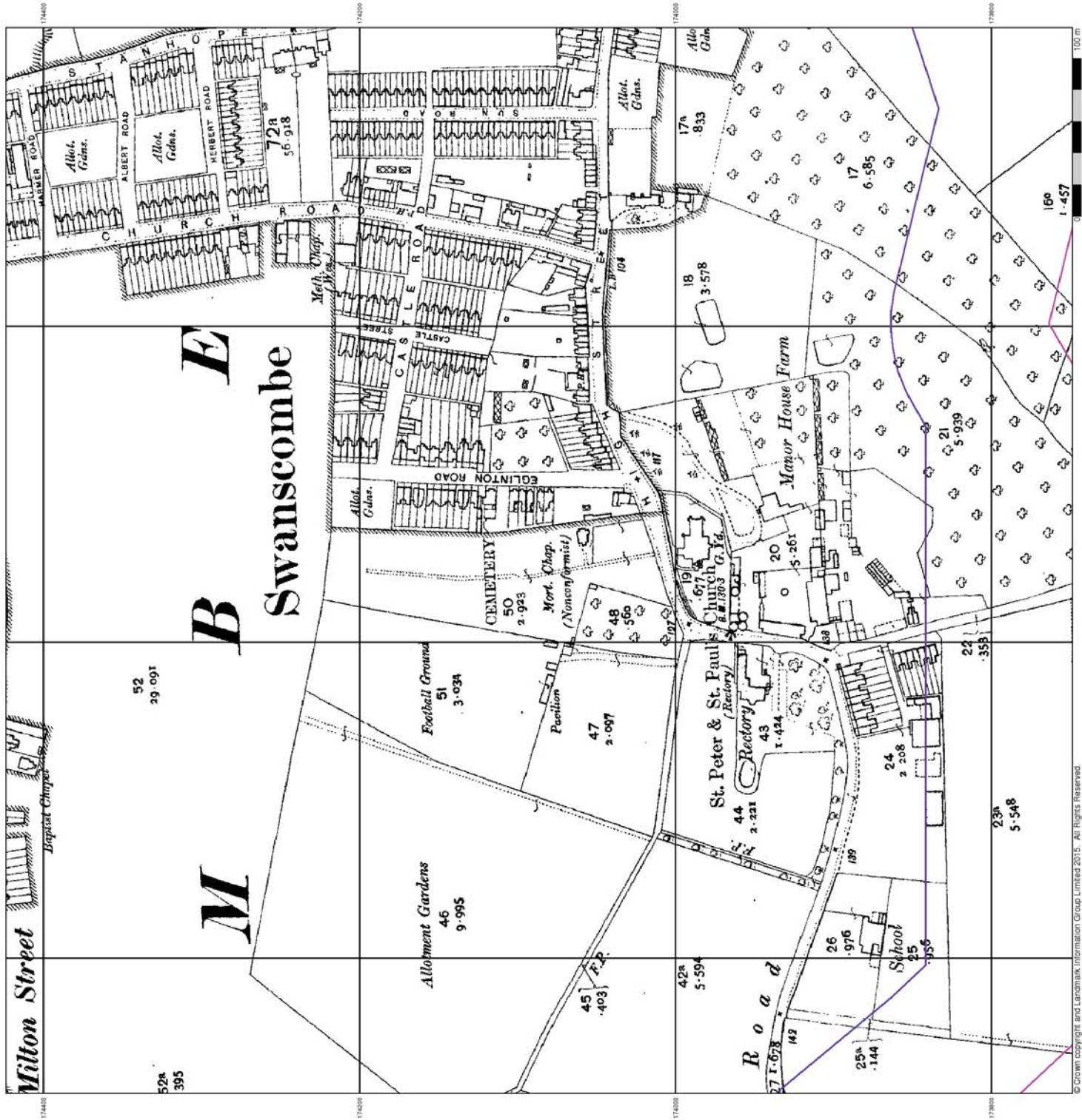


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Site: D
Site Area (Ha): 272.38
Search Buffer (m): 100

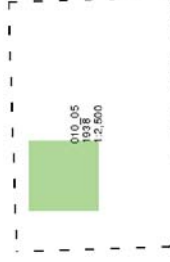
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

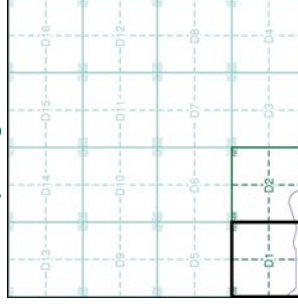


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale in England, Wales and Scotland in the 1940s - 1954. The maps were reproduced from the original maps by 1956. It is important to note that the maps were reproduced by 1956. It is important to note that the maps were reproduced by 1956. It is important to note that the maps were reproduced by 1956.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



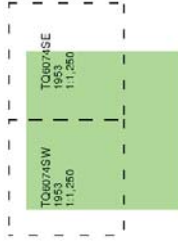
Ordnance Survey Map

Published 1953

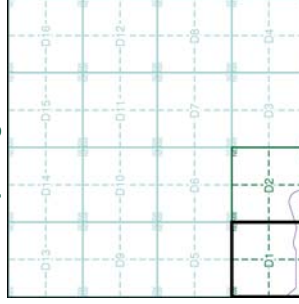
Source map scale - 1:1,250

The historical maps shown are reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The maps were first published in 1854 and were subsequently revised and reissued by the Ordnance Survey. The maps were prepared by the Ordnance Survey, which was responsible for the mapping of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

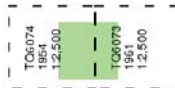
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

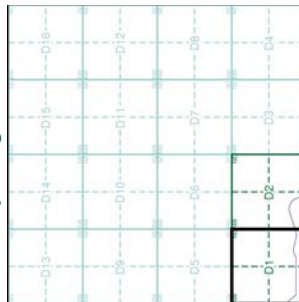


The historical maps shown were reproduced from maps predominantly held at the state adopted for England, Wales and Scotland in the 1840's. In 1854 at the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
D
Slice:
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

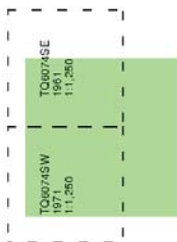
Ordnance Survey Plan

Published 1961 - 1971

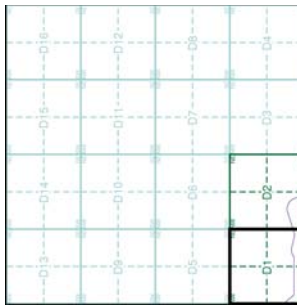
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s and 1950s. The maps were then reissued at 1:1,250 scale by 1961. It is important to note that the whole of what was covered by the original parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



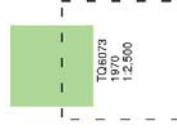
Ordinance Survey Plan

Published 1970

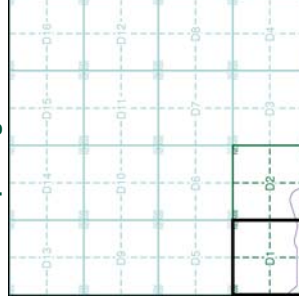
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1

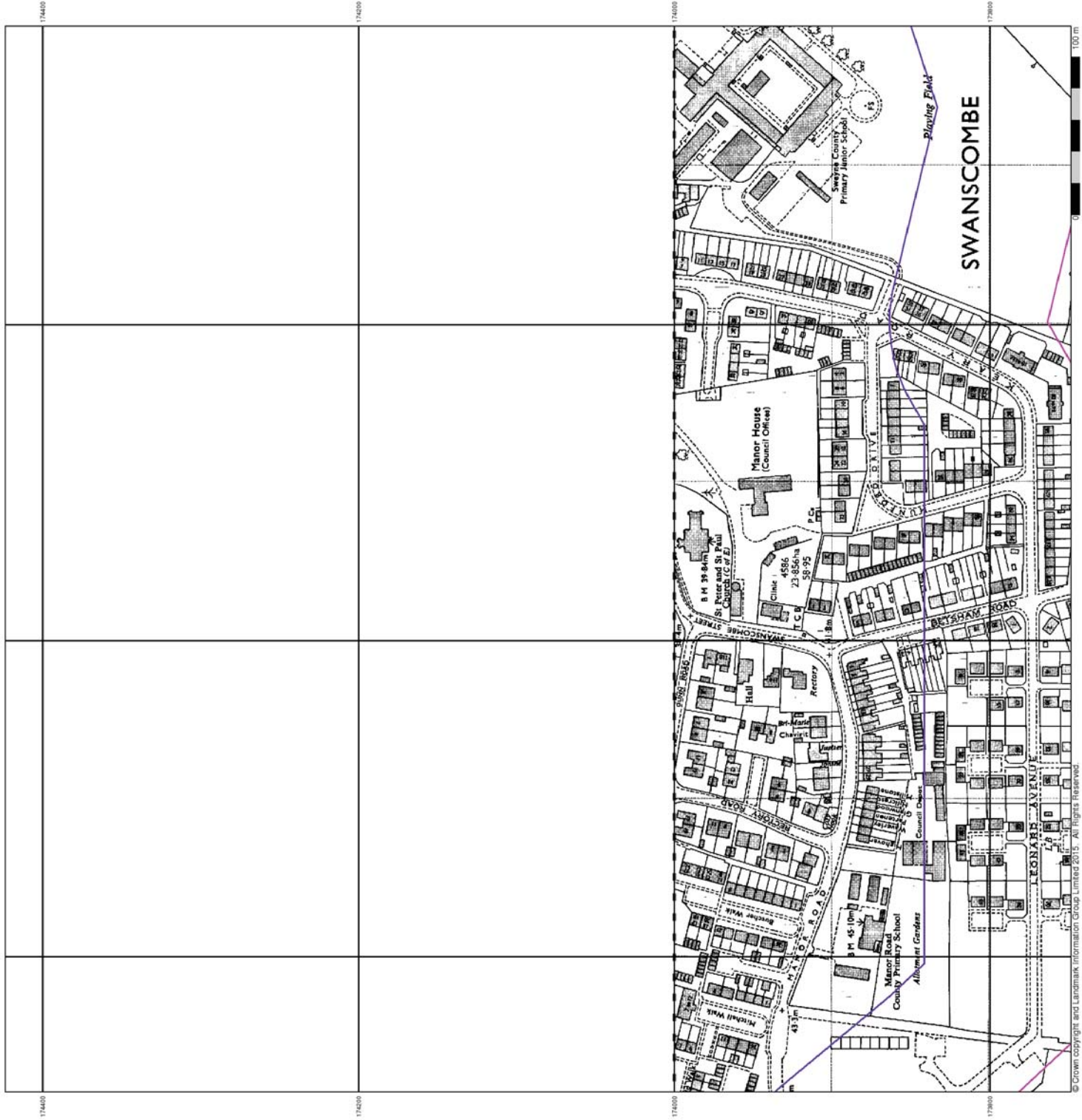


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



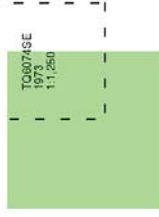
Ordinance Survey Plan

Published 1973

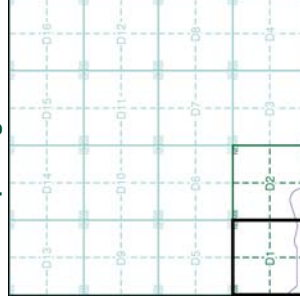
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s, 1950s and 1960s. The maps were then reissued at a 1:1,250 scale by 1986. It is important to note that the whole of what was considered to be the delineated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

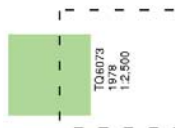
Additional SIMs

Published 1978

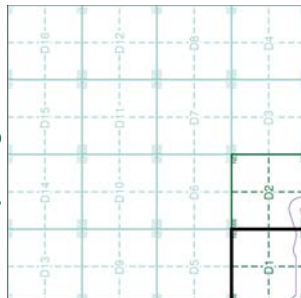
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
D
Slice:
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

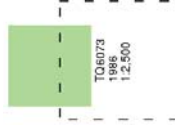
Ordinance Survey Plan

Published 1986

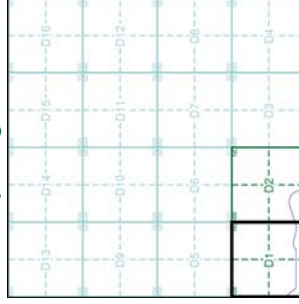
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D1

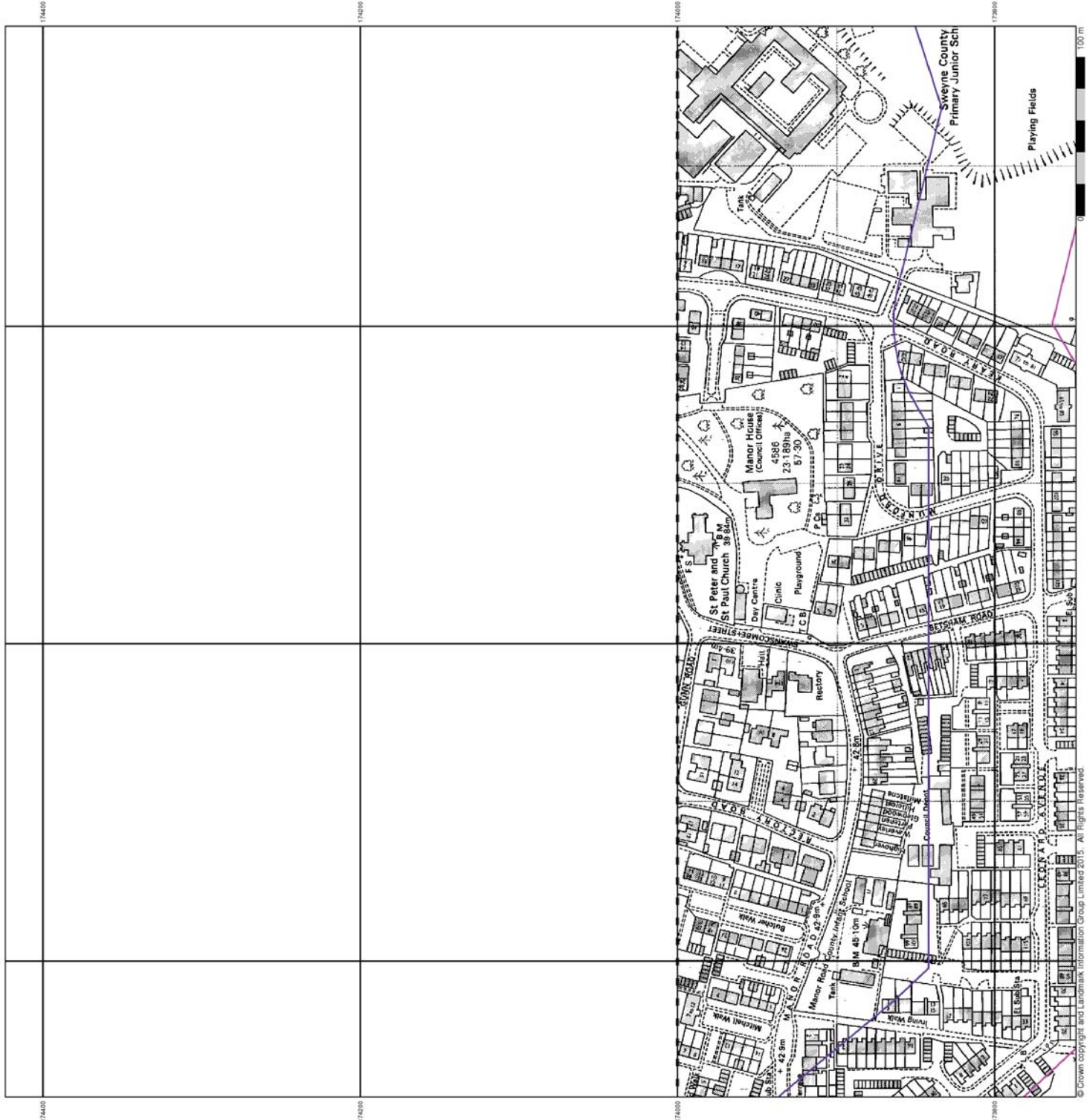


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

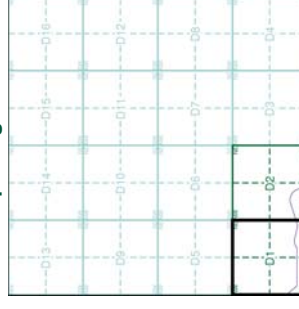


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Details

Order Number:	89304408_1_1
Customer Ref:	250122/00
National Grid Reference:	560830, 174470
Slice:	D
Site Area (Ha):	272.38
Search Buffer (m):	100

Site Details

Site Details
Barton Willmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

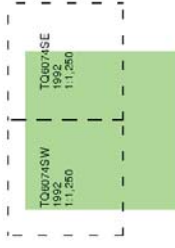
Large-Scale National Grid Data

Published 1992

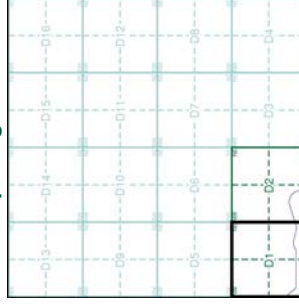
Source map scale - 1:1,250

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were produced by digitising aerial photography and provide detailed information on buildings and roads, but tend to overlook topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

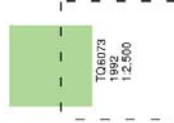
Large-Scale National Grid Data

Published 1992

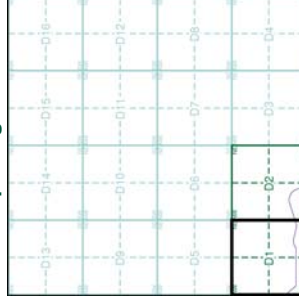
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were originally produced for the purpose of providing detailed information on houses and other built land, but also less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D1

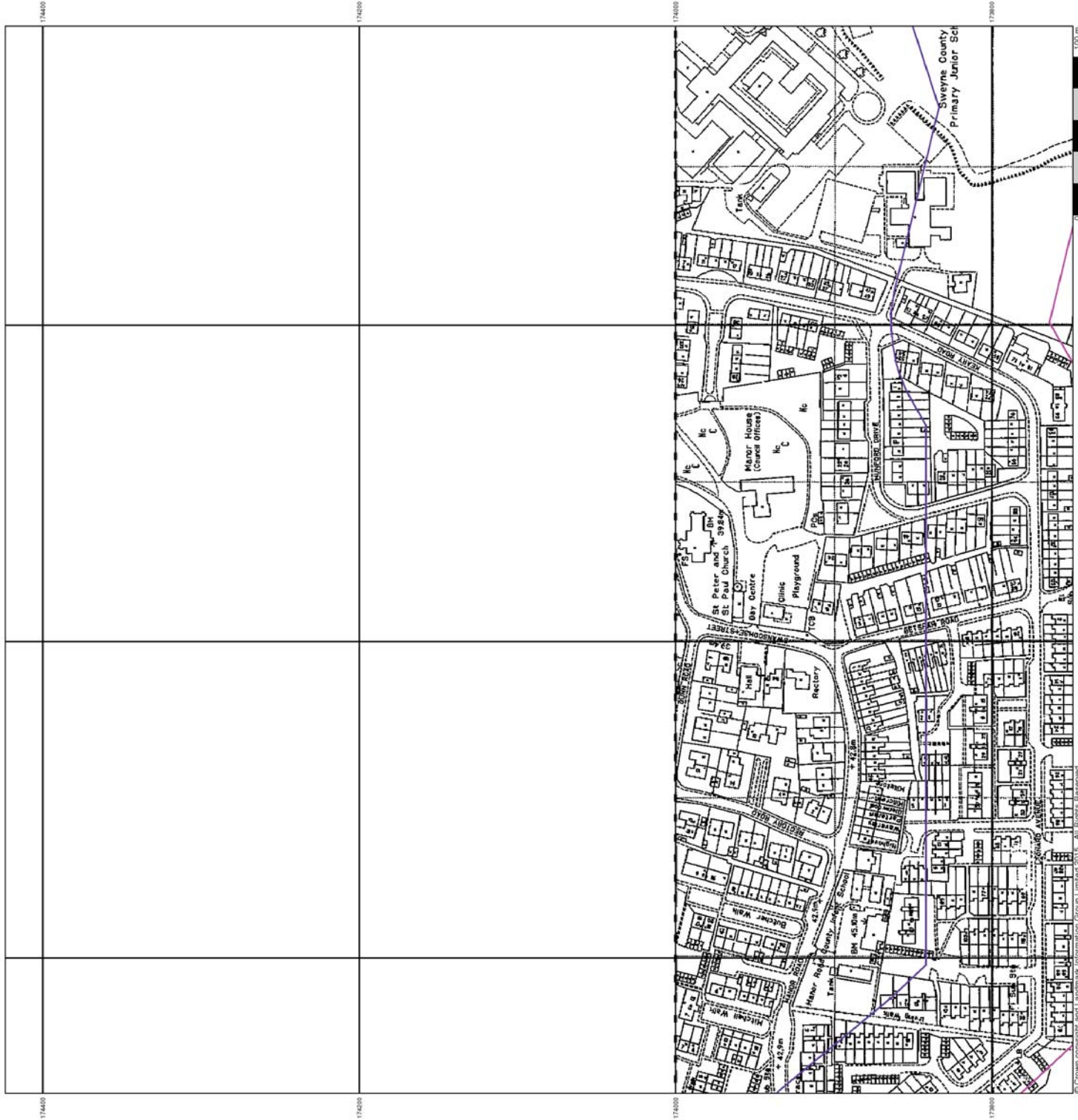


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Large-Scale National Grid Data

Published 1993

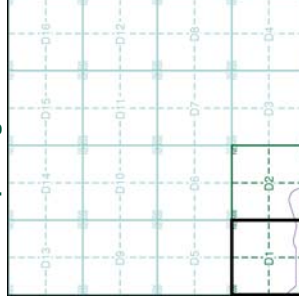
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were the original mapping at a scale of 1:2,500, and provide detailed information on houses and other built-up areas, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D1



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF

Large-Scale National Grid Data

Published 1995

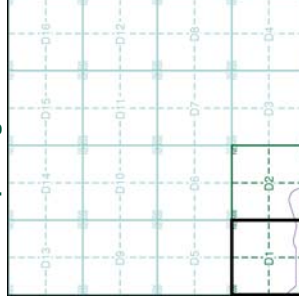
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were originally produced for mapping and to provide detailed information on houses and roads, but later to show topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TC6073	1995	1:2,500
--------	------	---------

Historical Map - Segment D1

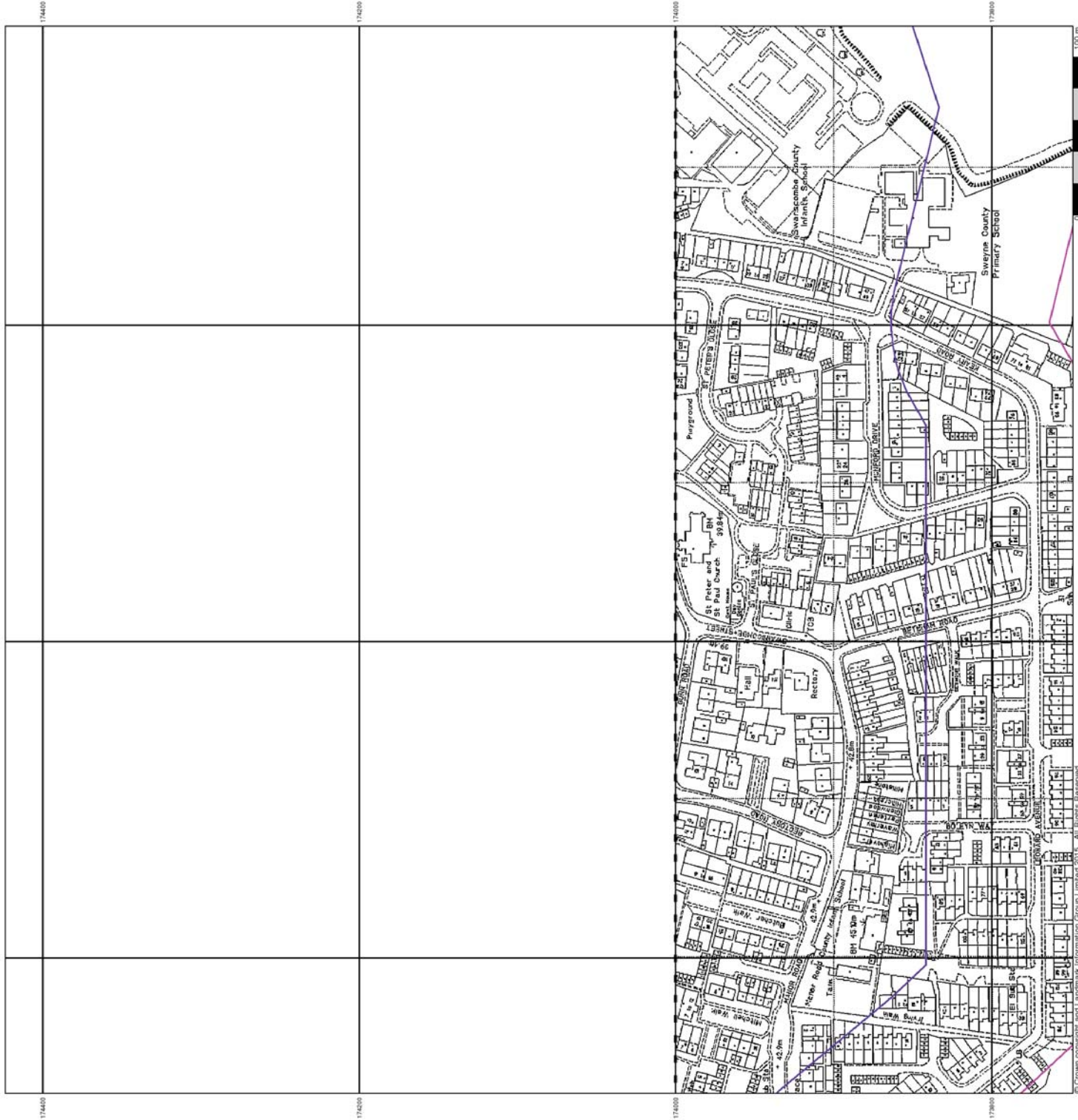


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Historical Mapping Legends

Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500

Quarry

Gravel Pit

Sand Pit

Clay Pit

Refuse Heap

Shingle

Sloping Masonry

Flat Rock

Marsh

Reeds

Osiers

Rough Pasture

Furze

Wood

Mixed Wood

Brushwood

Ferry

Fir

Ford

Waterfall

Lock

Trig. Station

B.M. 325.9

Bench Mark

Arrow flow of water

Antiquities (site of)

Cutting

Embankment

Road crossing Railway

Level Crossing

Road over single stream

Road over River or Canal

Railway crossing Road

Railway crossing River or Canal

County Boundary (Geographical)

County & Civil Parish Boundary

Administrative County & Civil Parish Boundary

County Borough Boundary (England)

County Borough Boundary (Scotland)

Boundary Post or Stone

B.R.

Bridle Road

Electricity Pylon

Foot Bridge

Foot Path

Guide Post or Board

Mile Stone

Mooring Post or Ring

Police Call Box

Pump

Signal Post

Sluice

Spring

Telephone Call Box

Trough

Well

Inactive Quarry, Chalk Pit or Clay Pit

Active Quarry, Chalk Pit or Clay Pit

Rock

Boulders

Slopes

Roofed Building

Archway

Non-Coniferous Tree (surveyed)

Non-Coniferous Trees (not surveyed)

Orchard

Tree

Coppice, Osier

Reeds

Heath

Bench Mark

Triangulation Station

Electricity Pylon

County Boundary (Geographical)

County & Civil Parish Boundary

Admin. County or County Bor. Boundary

London Borough Boundary

Symbol marking point where boundary merings changes

Beer House

Boundary Post or Stone

Capstan, Crane

Chimney

Drinking Fountain

Electricity Pole or Post

Fire Alarm Pillar

Foot Bridge

Guide Post

Hydrant or Hydraulic

Level Crossing

Manhole

Mile Post or Mooring Post

Mile Stone

Normal Tidal Limit

Pillar, Pole or Post

Post Office

Public Convenience

Public House

Pump

Signal Box or Bridge

Spring

Tank or Track

Telephone Call Box

Telephone Call Post

Trough

Water Point, Water Tap

Well

Wind Pump

Large-Scale National Grid Data 1:2,500 and
1:1,250

Cliff

Slopes

Rock

Boulders

Positioned Boulder

Non-Coniferous Tree (surveyed)

Non-Coniferous Trees (not surveyed)

Orchard

Tree

Coppice, Osier

Reeds

Heath

Triangulation Station

Antiquity (site of)

Electricity Pylon

Barracks

Battery

Cemety

Chimney

Cistern

Disamtd Rly

Electricity Generating Station

El Sub Sta

Electricity Pole, Pillar

Electricity Sub Station

Filter Bed

Fountain/Drinking Ftn.

Gas Gov

Gas Compound

GVC

Guide Post

Manhole

Mile Post or Mile Stone

Well

Roofed Building

Bench Mark

Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mering symbol (note: these always appear in opposed pairs or groups of three)

Pillar, Pole or Post

Post Office

Public Convenience

Pump

Ppg Sta

Place of Worship

Sewage Ppg Sta

Sewage Pumping Station

SB, S Br

Signal Box or Bridge

SP, SL

Signal Post or Light

Spring

Tank or Track

Trough

Wind Pump

Wp Pt, Wrt

Water Point, Water Tap

Wks

Works (building or area)

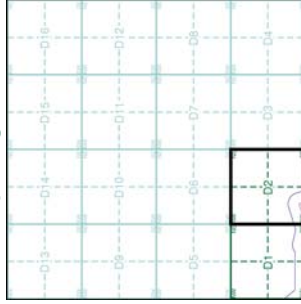


Envirocheck

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1879	2
Essex	1:2,500	1885	3
Kent	1:2,500	1887	4
Essex	1:2,500	1888	5
Kent	1:2,500	1909	6
Kent	1:2,500	1938	7
Ordnance Survey Plan	1:1,250	1953	8
Ordnance Survey Plan	1:2,500	1954 - 1961	9
Ordnance Survey Plan	1:1,250	1961 - 1973	10
Ordnance Survey Plan	1:2,500	1970	11
Additional SIMs	1:1,250	1972	12
Ordnance Survey Plan	1:1,250	1973	13
Additional SIMs	1:2,500	1978	14
Ordnance Survey Plan	1:2,500	1986	15
Large-Scale National Grid Data	1:1,250	1992	16
Large-Scale National Grid Data	1:2,500	1992	17
Large-Scale National Grid Data	1:2,500	1993	18
Large-Scale National Grid Data	1:2,500	1993 - 1995	19

Historical Map - Segment D2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



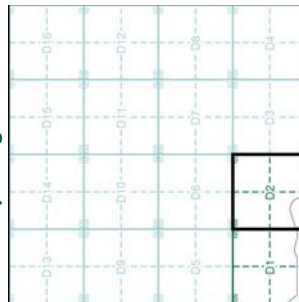
Tel: 0844 844 9852
Fax: 0844 844 9851
Web: www.envirocheck.co.uk

The historical maps shown were reproduced from maps predominantly held in the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it represented the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D2



Order Details

Order Details:

Order Number:	89304408_1_1
Customer Ref:	250122/00
National Grid Reference:	560830, 174470
Slice:	D
Site Area (Ha):	272.38
Search Buffer (m):	100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



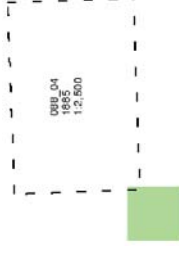
Essex

Published 1885

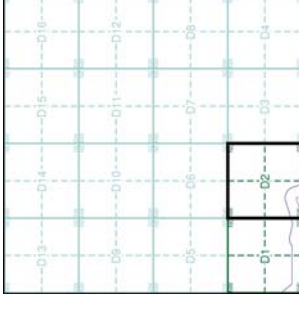
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale Ordnance Survey map was adopted for England and Wales. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

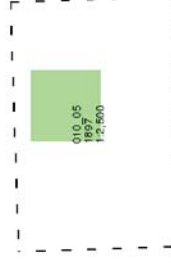
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



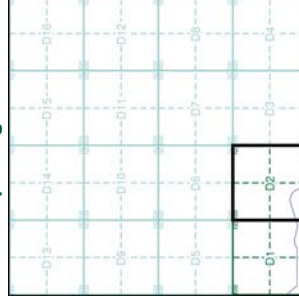
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

The historical maps shown were reproduced from maps predominantly held at the state adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:250 scale was adopted for mapping urban areas and by 1986 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in cutting areas.

Map Name(s) and Date(s)



Historical Map - Segment D2



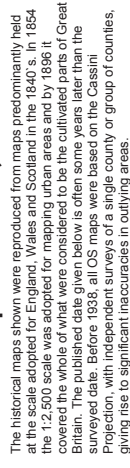
Order Details

Order Details

Order Number:	89304408_1_1
Customer Ref:	250122/00
National Grid Reference:	560830, 174470
Slice:	D
Site Area (Ha):	272.38
Search Buffer (m):	100

Site Details

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



0918 04
1896
1.2.500

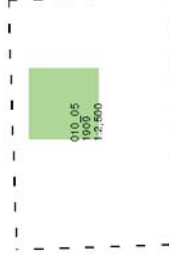
Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details
Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

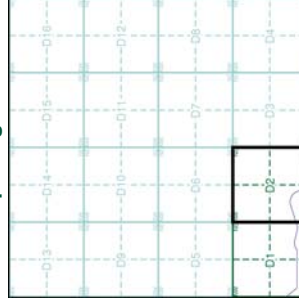


The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. In 1854 the Ordnance Survey was established and in 1861 it was reorganised to cover the whole of what was considered to be the United Kingdom. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D2

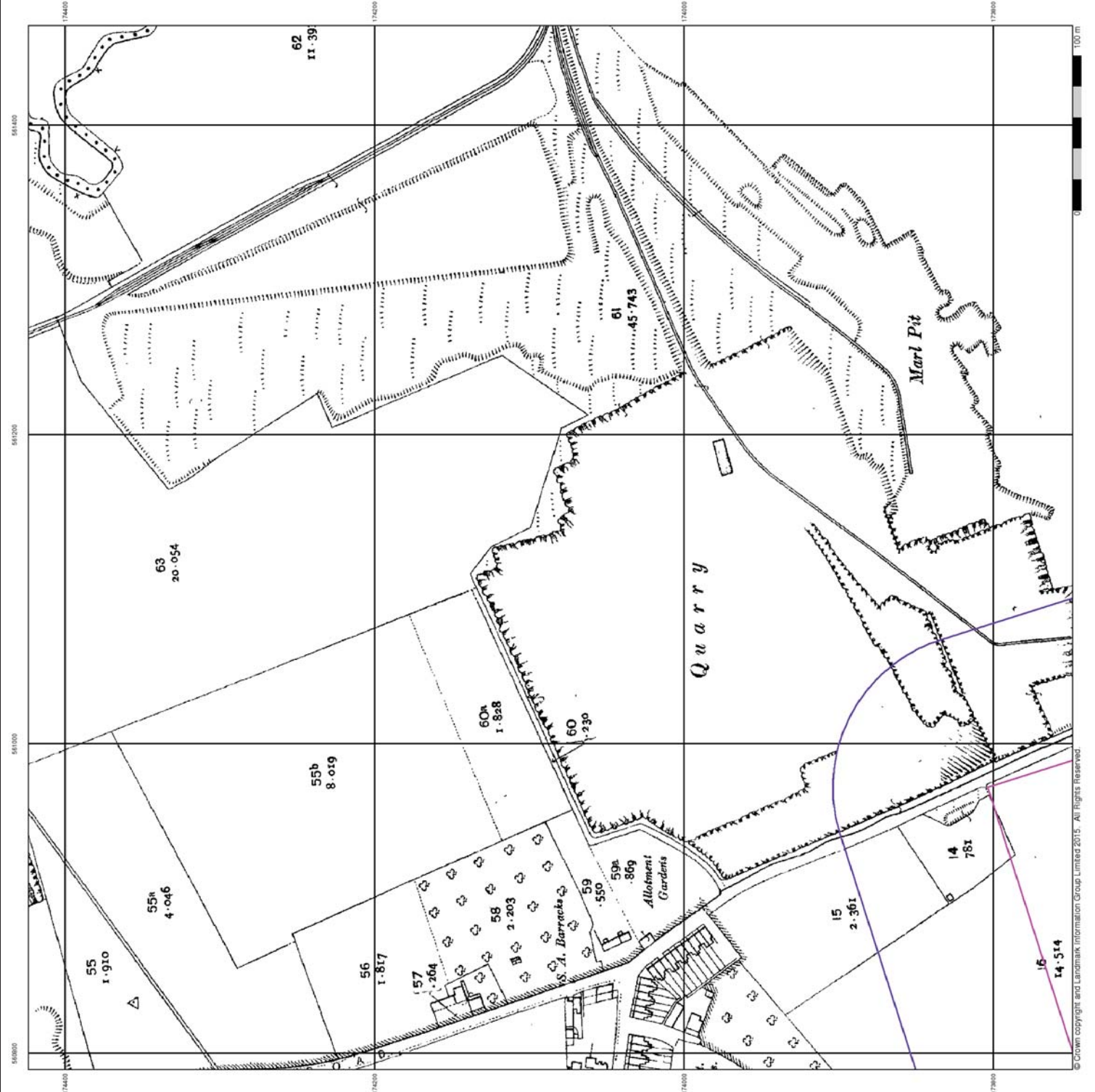


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

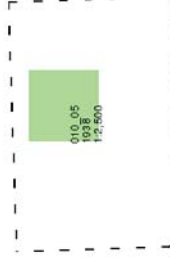
Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

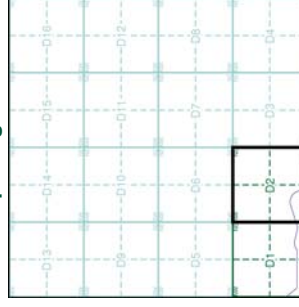


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the Ordnance Survey was established and in 1861 it was reorganised to be the Ordnance Survey. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D2

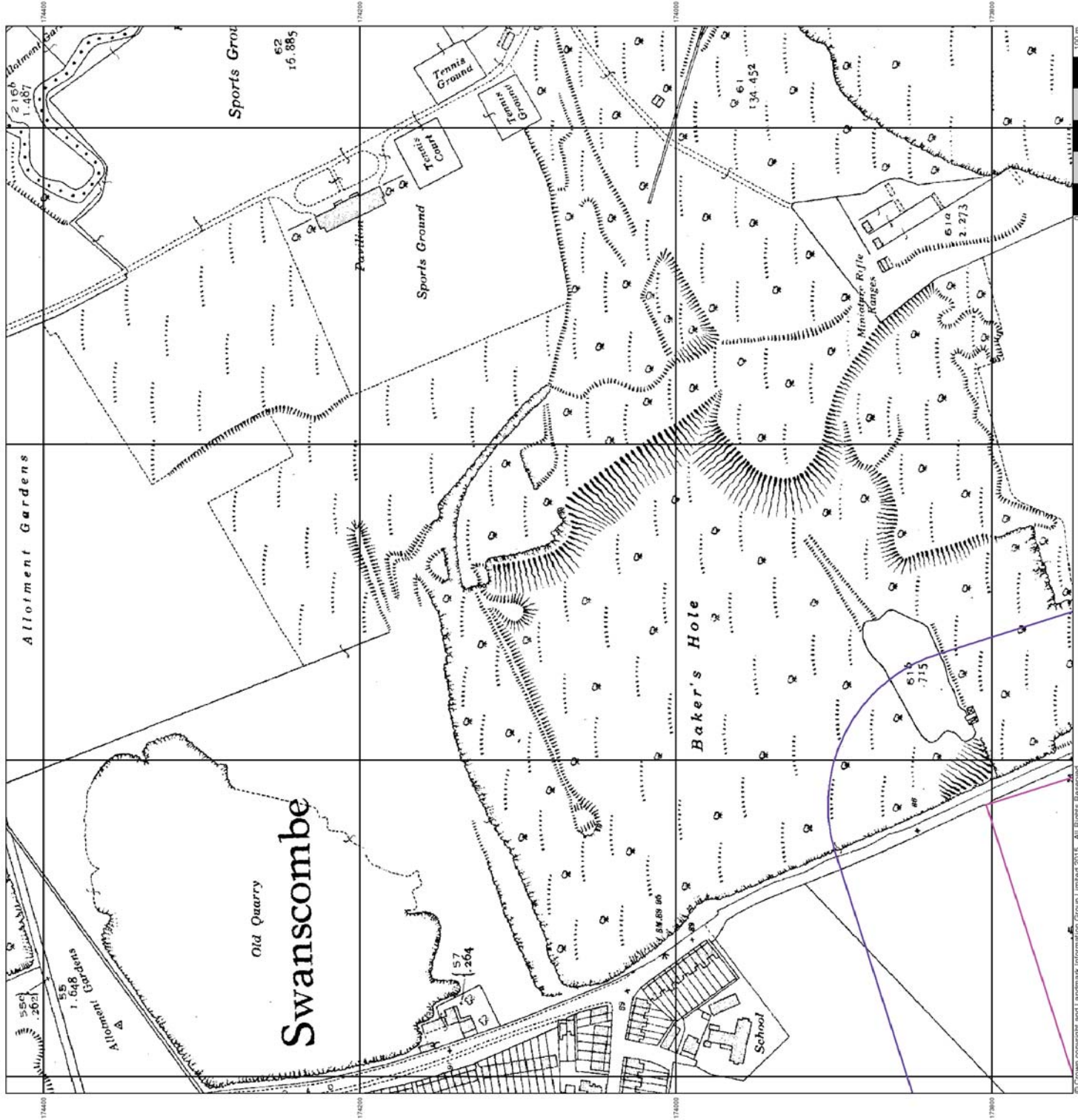


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



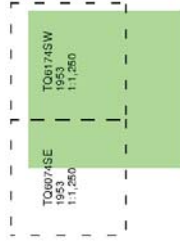
Ordnance Survey Map

Published 1953

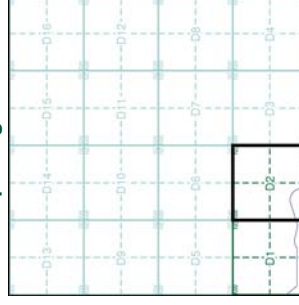
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:1,250 scale maps were first published in 1854 and were revised in 1953. The maps were compiled by 1896, it covered the whole of what was then considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D2

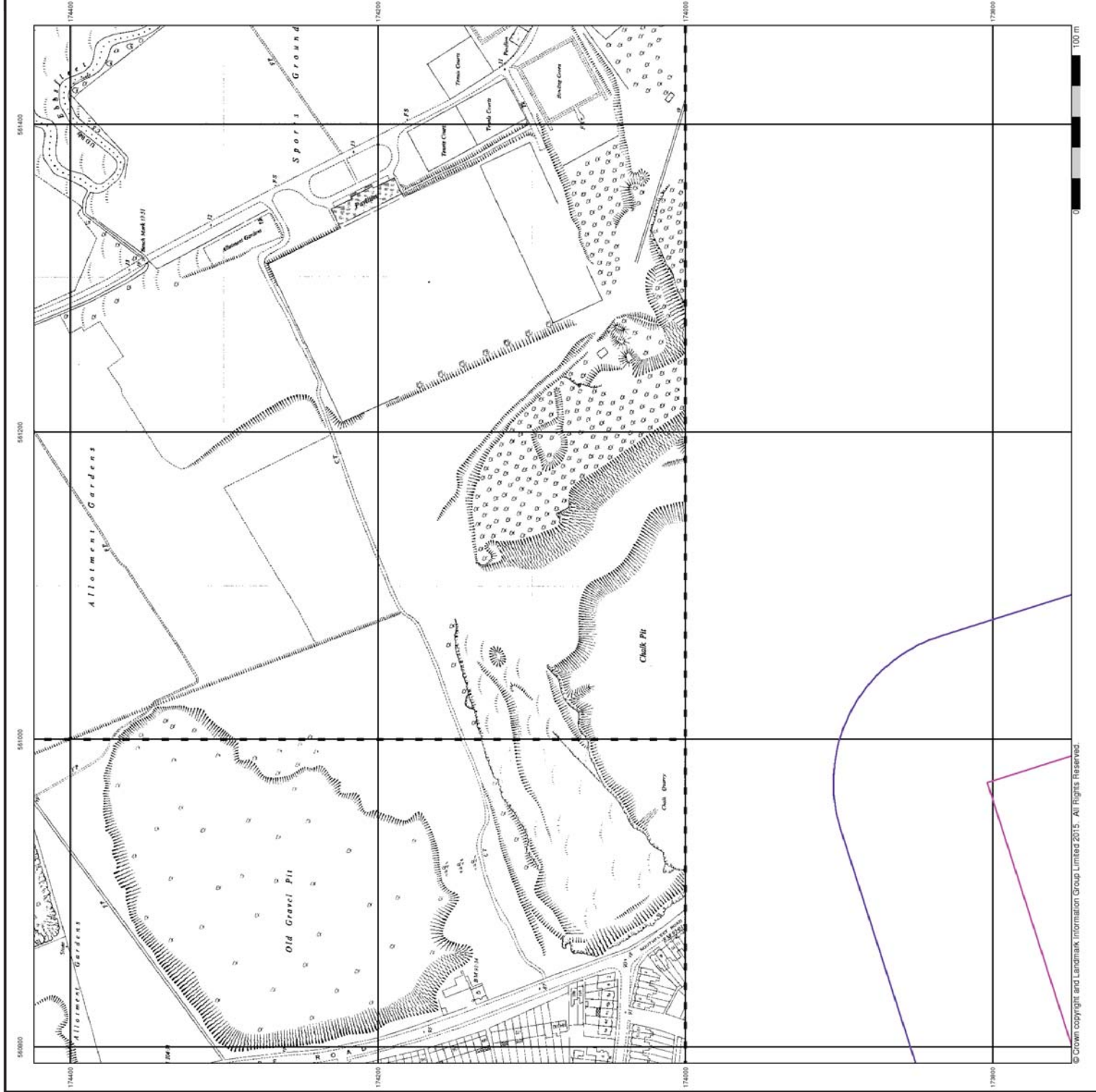


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1954 - 1961

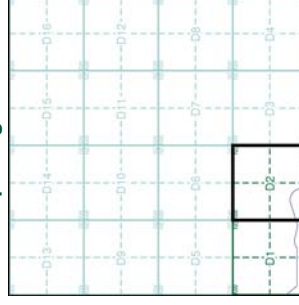
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were first published and were inspired by the Ordnance Survey's 1:62,500 scale maps. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TO6074	TO6174
1954	1954
12,500	12,500
TO6073	TO6173
1954	1954
12,500	12,500

Historical Map - Segment D2



Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

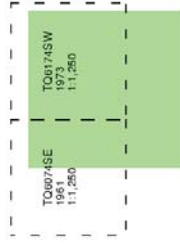
Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



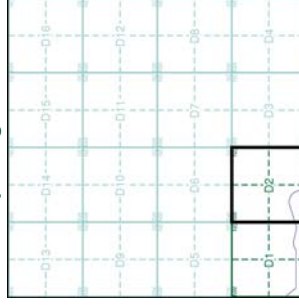
Ordnance Survey Plan **Published 1961 - 1973** **Source map scale - 1:1,250**

The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. In 1961, the Ordnance Survey published a series of maps at 1:1,250 scale, which covered the whole of what was then considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D2

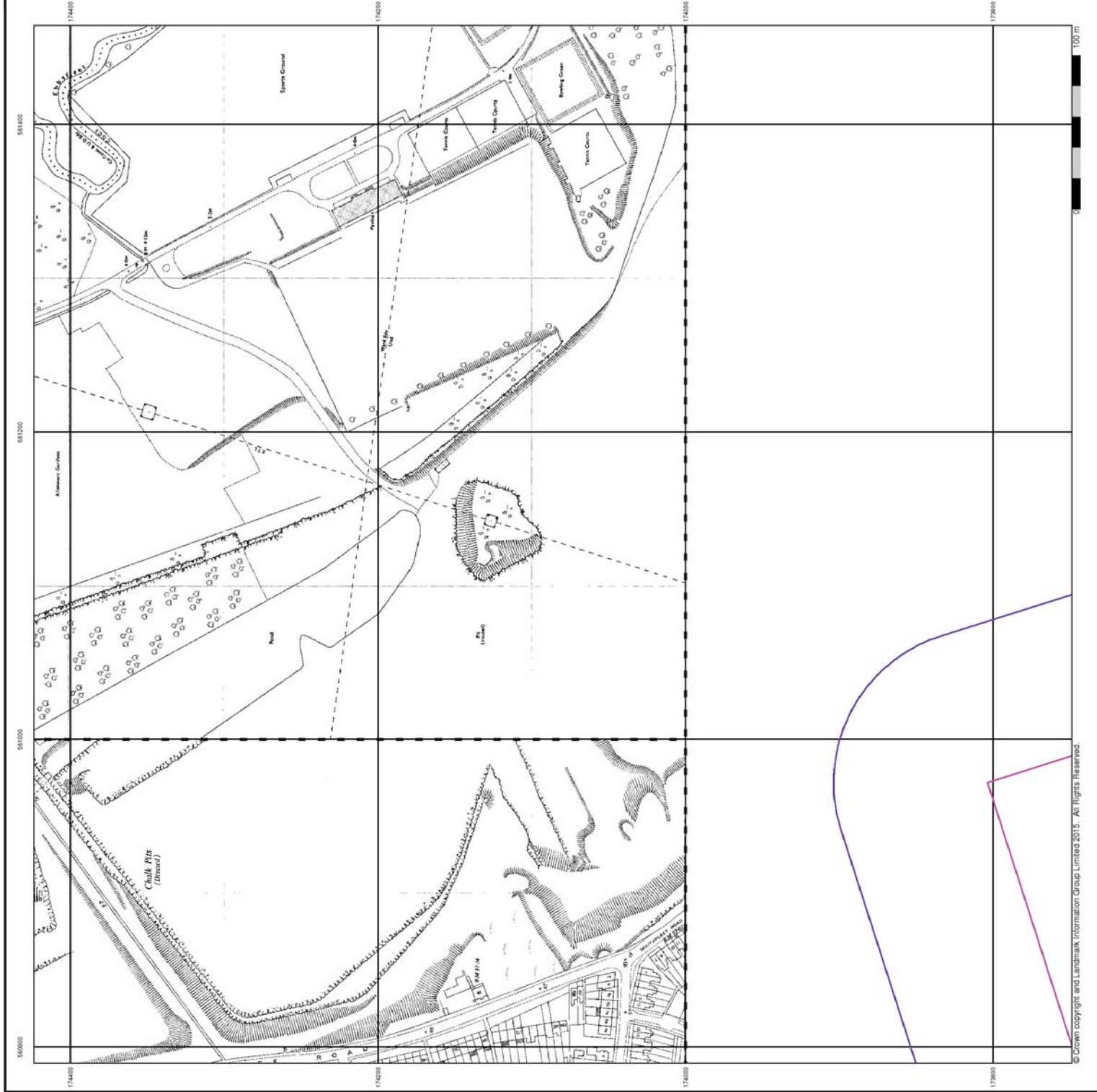


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1970

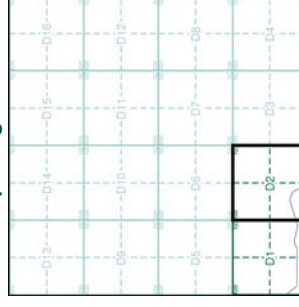
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale adopted for England, Wales and Scotland in the 1840s. The 1:2,500 scale maps were first published in 1840 and were based on the Cassini Projection. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

108473	108473
1970	1970
1:2,500	1:2,500

Historical Map - Segment D2

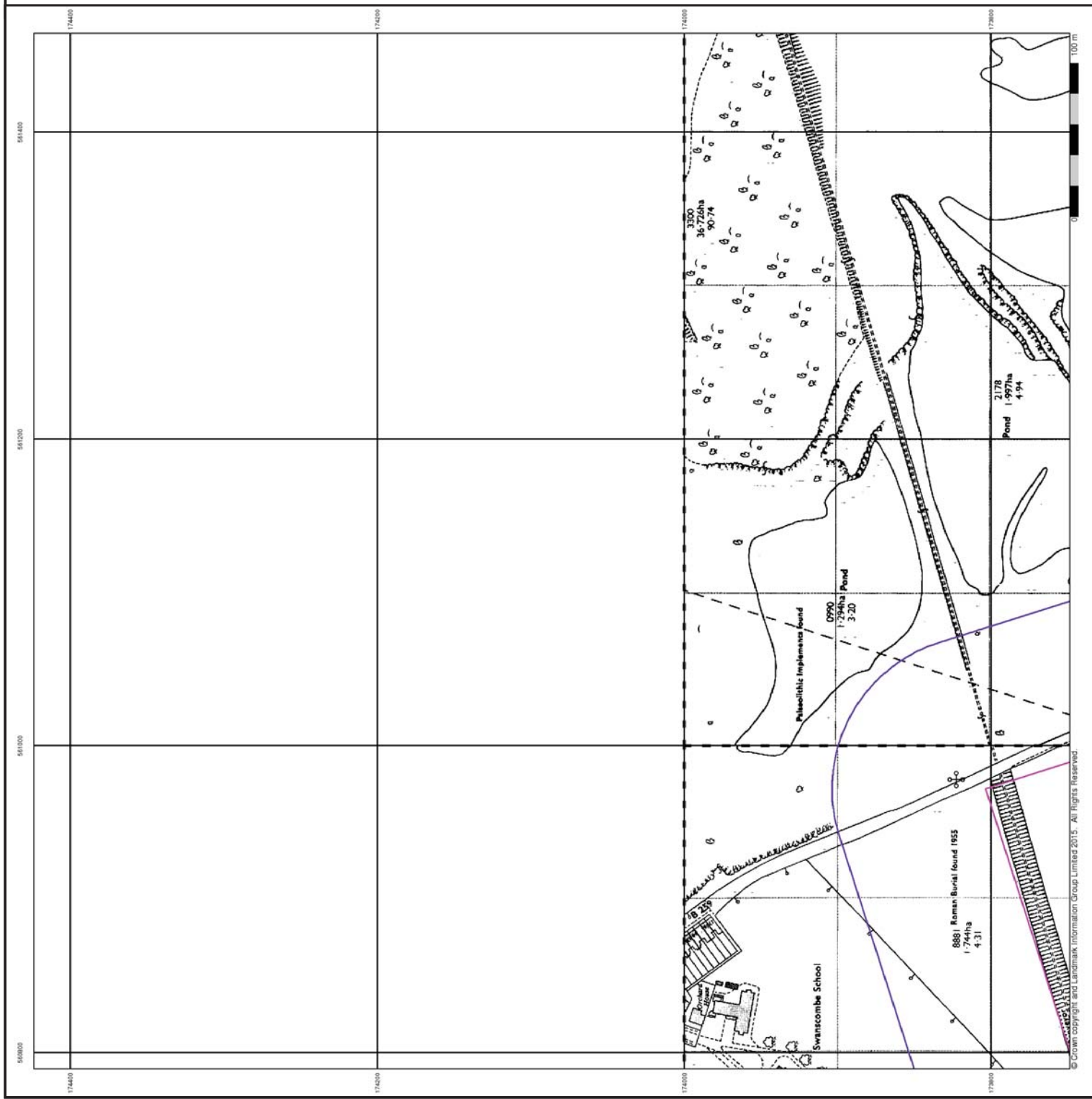


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



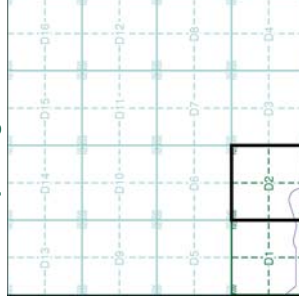
Additional SIMs Published 1972 Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published by the Ordnance Survey in the early 1970s. They are based on the 1:25,000 scale maps of 1934, and contain details of buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D2

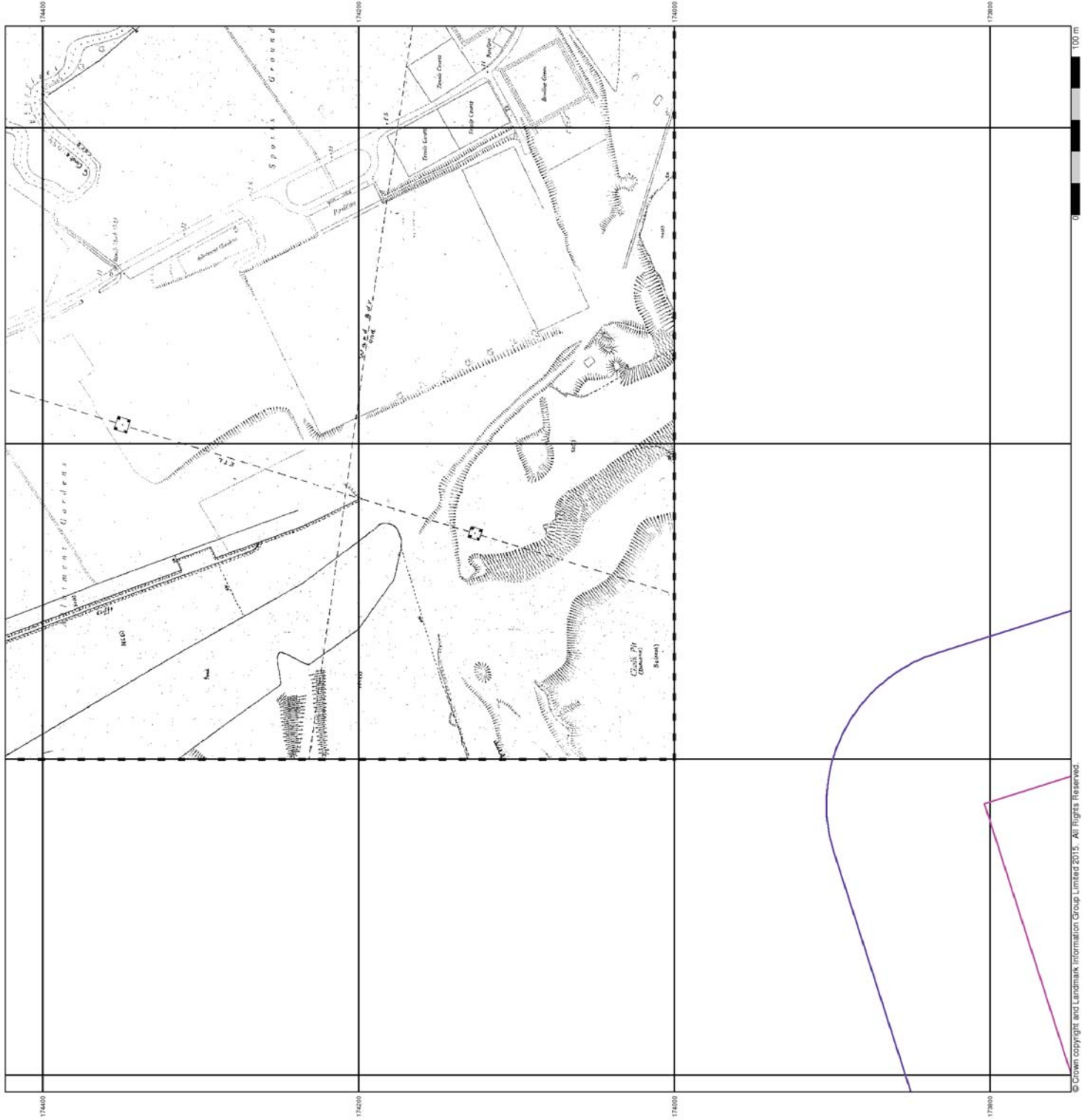


Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



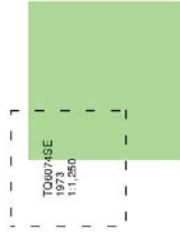
Ordnance Survey Plan

Published 1973

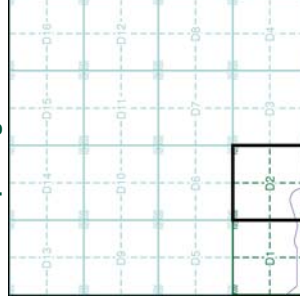
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment D2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF

Additional SIMs

Published 1978

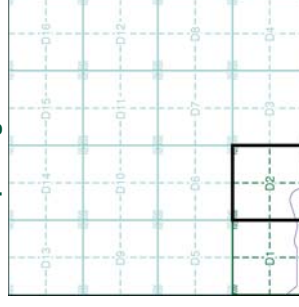
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s. They contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TS04/73	TS04/73
1978	1978
1:2,500	1:2,500

Historical Map - Segment D2



Order Details

Order Number: 8930408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey Plan

Published 1986

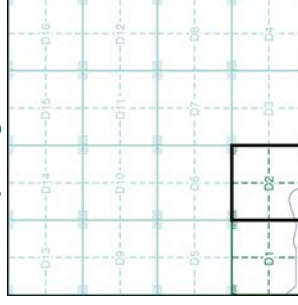
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

TS04073	TS04173
1986	1986
1:2,500	1:2,500

Historical Map - Segment D2

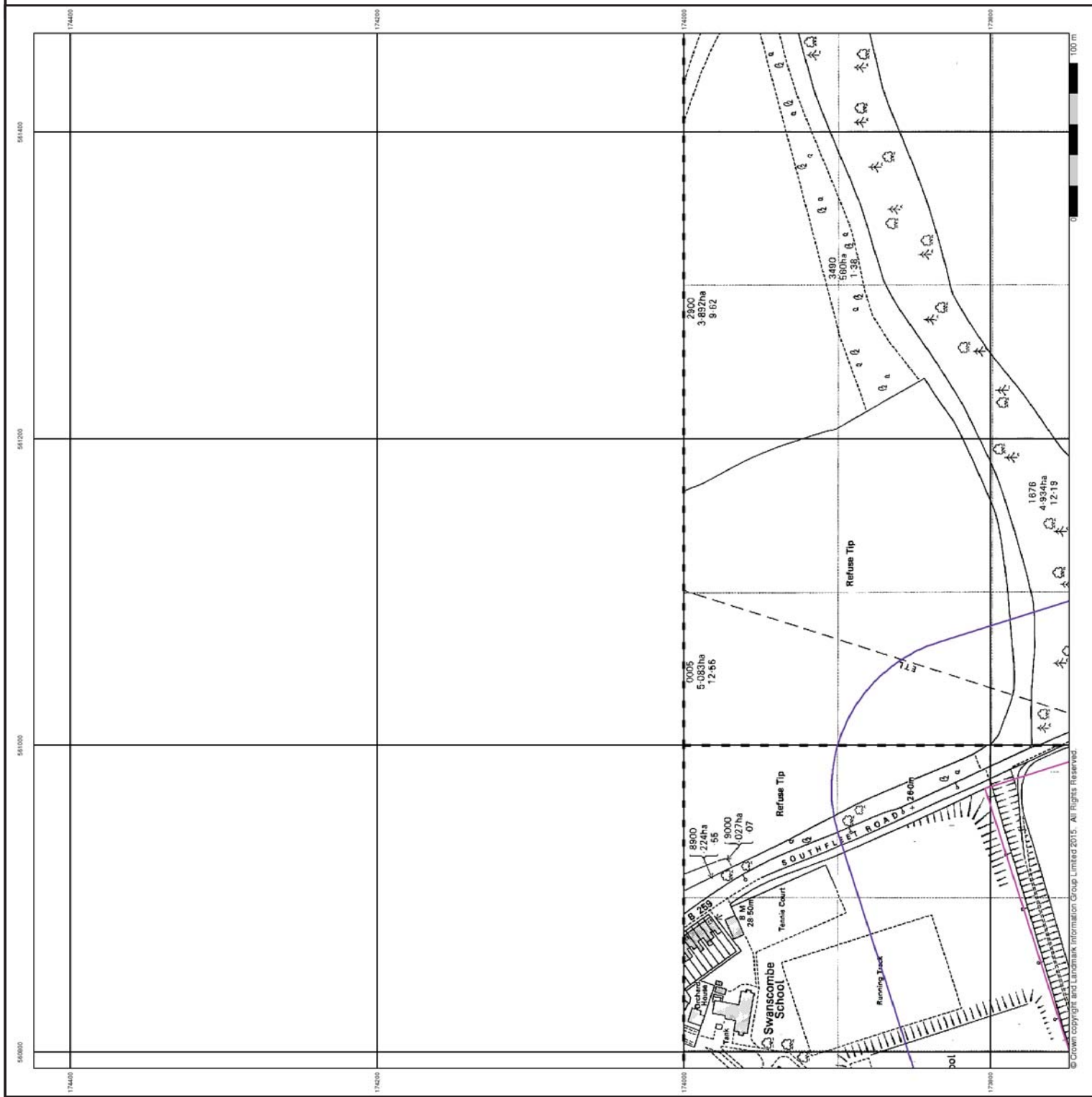


Order Details

Order Number: 89304408_1_1
 Customer Ref: 250122/00
 National Grid Reference: 560830, 174470
 Slice: D
 Site Area (Ha): 272.38
 Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
 SWANSCOMBE, Kent, DA10 0DF



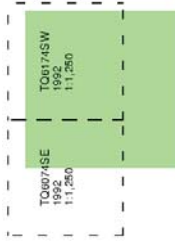
Large-Scale National Grid Data

Published 1992

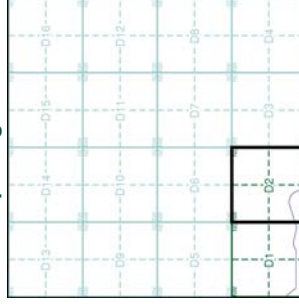
Source map scale - 1:1,250

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps are of a scale of 1:1,250 and are produced at a scale of 1:1,250. They provide detailed information on the land and its topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D2



Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF



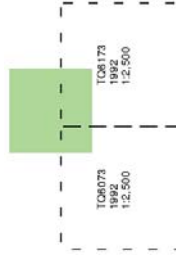
Large-Scale National Grid Data

Published 1992

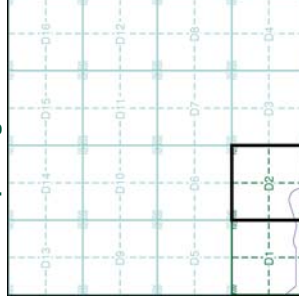
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were produced by digitising aerial photography and provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment D2

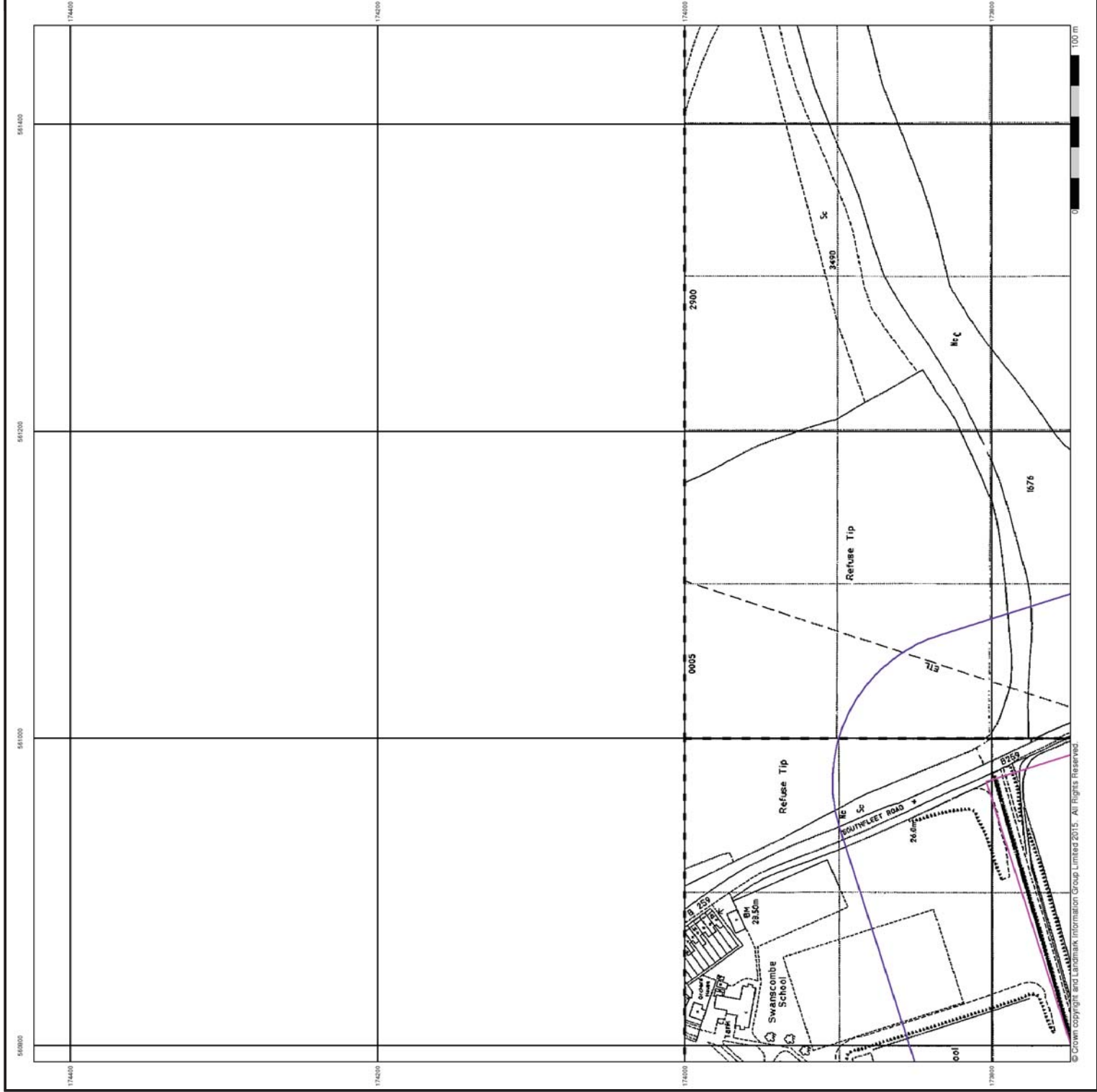


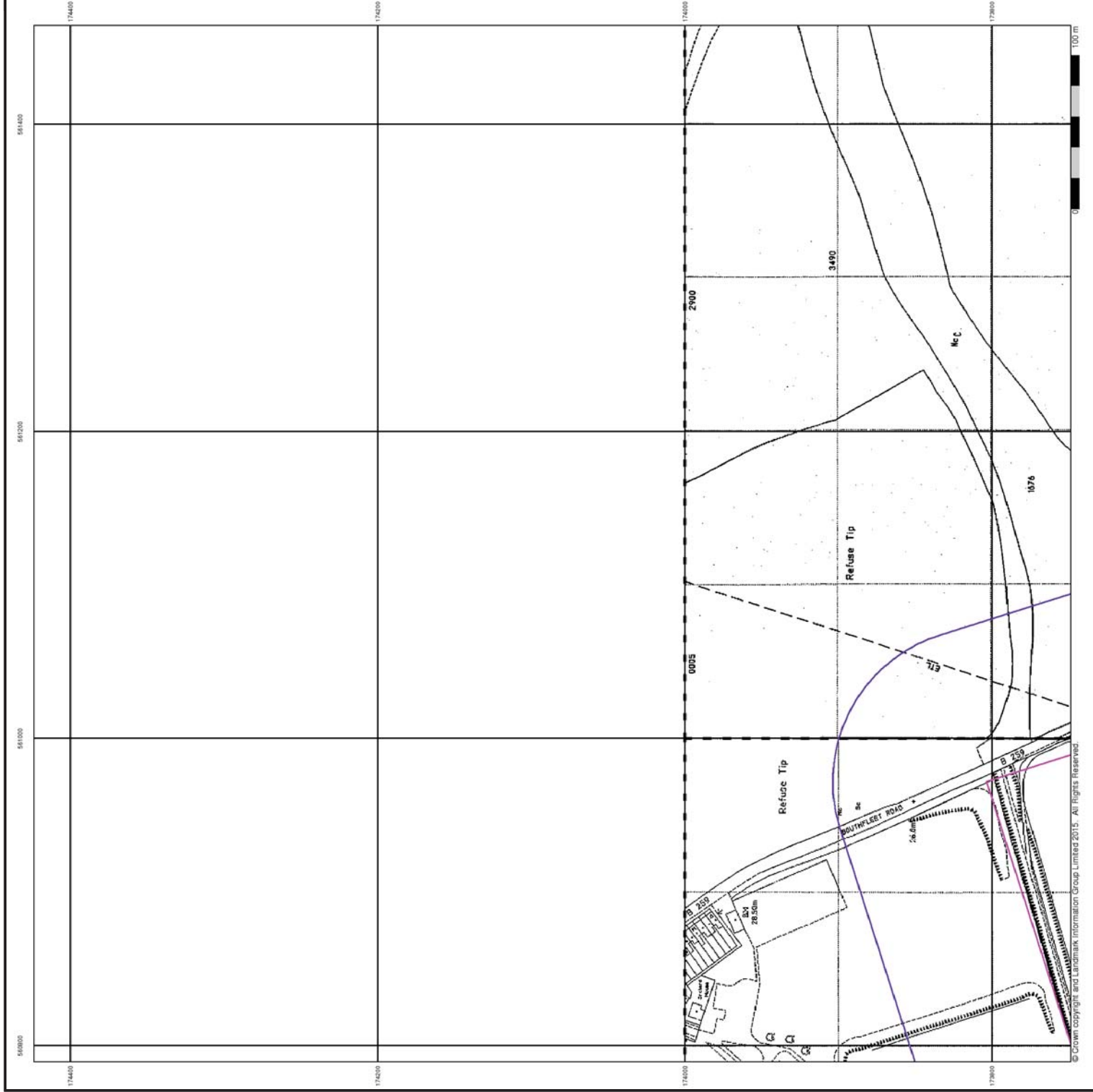
Order Details

Order Number: 89304408_1_1
Customer Ref: 250122/00
National Grid Reference: 560830, 174470
Slice: D
Site Area (Ha): 272.38
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,
SWANSCOMBE, Kent, DA10 0DF





Appendix B

Walkover Photographs

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
A	
B	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
C	
D	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
E	
F	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
G	
H	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
I	
J	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
K	
L	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
M	
N	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
O	
P	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
Q	
R	
S	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
T	 The photograph for reference T consists of two side-by-side images. The left image shows a gravel path leading towards a dark vehicle with its rear open. Two people wearing high-visibility vests and hard hats are standing near the vehicle. The right image is a close-up of the gravel, showing a mix of light and dark stones.
U	 The photograph for reference U shows a wide view of a grassy hillside. In the background, several high-voltage power lines and pylons are visible against a cloudy sky. The foreground is filled with dense green vegetation.

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
V	
W	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
X	
Y	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
Z	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
AA	
AB	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
AC	
AD	

Subject Land Quality Desk Study Site Walkover Photographs

Date 12 August 2016

Job No/Ref 250122-01

Ref	Photograph
AE	
AF	

Appendix C

Fuel Spill Report

Non Compliance Report form NCR	
1. NCR No.: 02/12	2. Date: 4/3/02
3. Description of Non-compliance (actual/operational risk/other concern)	
Major deisel spill from AMPL's fuel tank. Approx 20000l escaped. Malicious.	
4. Reported by (name): J Henry	
5. Corrective Action/Action to Prevent a recurrence:	Responsibility and date action to be completed by:
Prevent spill getting into water course Suck up spillage Excavate and remove contaminated ground Inform EA Lock hose and nozzle Lower fuel tank into bund and have a pumped system Monitor water courses for signs of seepage	B Hobba 4/3/02 AMPL 4/3/02 AMPL May 02 B Hobba April 02
6. Recommended (sign): J Henry	7. Date: 4/3/02
8. Approved (sign): Works Manager	9. Date:
10. Closeout (recommended action) implemented and effective:	
11. (sign): Environmental Co-ordinator	
12. Date:	

COPIES AS REQUIRED:

Preliminary recording only.
About 40 tonnes of heavily contaminated material removed to Cleanaway, Ockendon landfill site. Rest of material put through the process.
EA satisfied with methodology.
Bill HSC 20/10/05.

Appendix D

Washmill Lagoons Technical Note

Technical Note

ARUP

13 Fitzroy Street
London
W1T 4BQ
United Kingdom
www.arup.com

t +44 20 7636 1531
d +44 20 7755 5691

Project title	Eastern Quarry	Job number
		67941-42
cc	Anna Morley	File reference
Prepared by	Vivien Kwan	Date
		9 June 2016
Subject	Desk study research on the Washmills Lagoons in the former Alkerden Farm Quarry	

Executive Summary



Main points:

- Camland plan to fill in the former washmills lagoons during the summer 2016 earthworks season to a level commensurate with the existing ground level (approx. +7mOD). Final formation level for earthworks platform is likely to be some 8m above this level. The Geotechnical Desk study has shown that the likely minimum level of the washmills lagoon cells is -6.7mOD.
- No specific information was revealed regarding likely material characteristics or contamination potential but based on the use of the lagoons as settlement ponds and sumps from the chalk 'washing' process it is likely to be mainly a soft melange of silt and clay sized particles of chalk.
- During 2005 earthworks season another former settlement lagoon was removed as the material was found to be too soft to leave in situ beneath the bulk earthworks, even at great depth and

Technical Note

67941-42

9 June 2016

other options explored at the time (e.g. wick drains, stone columns) were found not to be cost effective or practical.

Earthworks recommendations:

- Dewater zone around the settlement lagoons to below base level of lagoon;
- Assess method for removing soft material (with Erith). Long-reach excavator? Open up ramp to drive plant into base of the cell.
- Assess stability and condition of chalk side slopes and chalk spines dividing the cells. The washmills lagoons could be up to 14m deep with sub vertical side slopes that have been saturated and therefore may not be stable. The initial assessment will be carried out prior to excavation followed by assessments during excavation to confirm assumptions
- If possible, test lagoon material in situ for potential contamination in line with Ground Contamination Strategy (2008). Limited earthworks testing of lagoon material in order to find long term solution for placement of material e.g. can it be dried out and placed as engineered fill at depth or could it be placed under an area of potential landscaping.

Table 2: Testing Frequency

	Material	Testing frequency	Testing Suite (see also tables 3 and 4 below)
1	Natural soils and clean fills	1 sample per 20,000m ³	1 & 2 (2 done at lower frequency)
2	Lagoon fill	1 sample per 5,000m ³	1 & 2
3	Segregated potentially contaminated material	To be instructed by the overseeing organisation	1 & 2 additional tests may be instructed by the overseeing organisation
4	Imported soils (if any) such as topsoil	Minimum 3 samples per source and additional 1 sample per 500m ³	1 and 2

(from Ground Contamination Strategy report, 2008)

- Excavate soft material to a sound base. Consider removal of the dividing chalk spines in order to create a longer, more continuous fill area that will be easier to use compaction plant in.
- Stockpile material in a specified storage location with tracking so that material represented by each sample can be traced.
- Maintain a provision for segregation and higher frequency testing of any suspect materials.
- Fill washmills lagoon with engineered fill placed and tested (chemical and geotechnical) in accordance with the updated earthworks specification. This might involve the addition of geogrids to add stiffness to the fill at 1m intervals, use of lighter smaller compaction plan at the edges of the washmills lagoon cells and benching into the upper metres of chalk side slopes to 'soften' the transition from incompressible chalk to less stiff engineered fill.

Next steps:

- Review thickness of walls of washmills lagoons in order and assess potential stability of the washmills lagoons chalk walls prior to dewatering.
- After dewatering, confirm integrity and stability of side slopes of washmills lagoons prior to any excavation plant entering the lagoon.
- Confirm which planning application these works are being done under and if there are any specific requirements set out.

Technical Note

67941-42

9 June 2016

1 Introduction

This memo summarises information from a desk study research on the settlement lagoons (Washmills Lagoons for the Northfleet Washing Plant) in the former Alkerden Farm Quarry in order to answer the following questions:

1. What levels were the lagoons dug to?
Target level for the excavations was -6.7mOD but excavation could have been abandoned at a shallower level (see Section 3.1).
2. How did the Chalk spines around the lagoons evolve?
The layout of the lagoons changed slightly through the years but the Chalk spines around the lagoons did not change much (see Figure 2 and Figure 4).
3. Are the Chalk spines more than 8m deeper than the final finished level?
Potentially, depending on the final finished level which is to be confirmed by the Client. Draft contour drawing (Camland, May 2016) suggests final finished level in the area to be around +15mOD (sloping towards this south). This is some 8m above the Chalk spines forming the lagoons (at approximately +6.7mOD).
4. Are there Chalk spines within the lagoons?
There are features within the third lagoon from the left and also a feature along the middle of the leftmost lagoon, see (see Figure 4). These features were not shown on the earlier drawings and are thus unlikely to be Chalk spines.
5. What are the likely materials in the lagoons?
No specific information was revealed from the research, apart from that usage of the lagoons is confirmed to be settlement sumps and lagoons for the Washing Plant (see Section 5.1).
6. Any information in relation to ground contamination (further work by the Environmental Team).
No specific information was revealed from the research, apart from that there are no bulk hazardous chemicals used in the washing process and the potential for ground contamination of the Washing Plant area is very low (see Section 5.2).

The location of the Washmills Lagoons is shown in the aerial photographs in Figure 1 below.

Technical Note

67941-42

9 June 2016



(a) Eastern Quarry



(b) close up of the Washmills lagoons
– referenced in this memo as A to D from left to right

Figure 1 Aerial photograph of the settlement lagoons
(dated June 2015 from Google map at 51°26'08.26" N 0°17'45.12" E)

2 Sources of information

This desk study research made use of the information:

1. Aerial photographs from Google Earth Professional (contained in Appendix A).
2. An Arup Desk Study ([Arup, 2002](#)) (relevant information are extracted in Appendix B).
3. Information received from Lafarge (Blue Circle), including End of Year Survey drawings, panoramic photographs and a groundwater study report (relevant information are extracted in Appendices C to E).

Technical Note

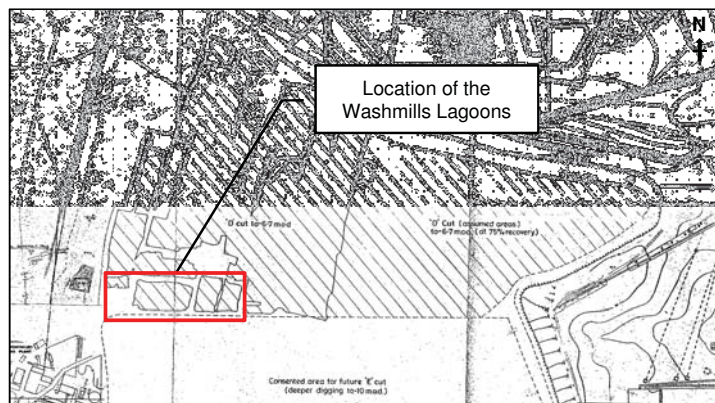
67941-42

9 June 2016

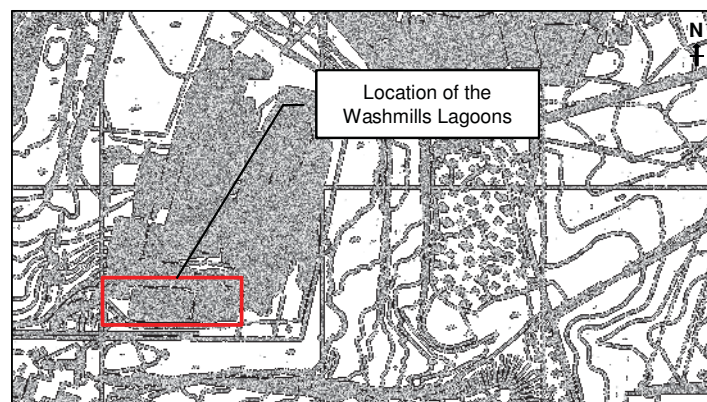
3 Evolution of the lagoons

3.1 Initial formation of the lagoons

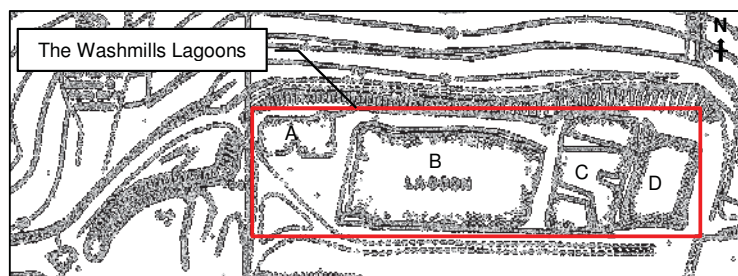
The formation of the lagoons is shown in Figure 2.



(a) Excavations in the Alkerden Farm Quarry prior to the formation of the Washmills Lagoons ([Figure A3 of the Arup Desk Study](#))



(b) Quarry cells to the north have been backfilled in 1979 ([End of Year Survey 1979](#))



(c) Layout of the Washmills Lagoons in 1991 ([End of Year Survey 1991](#))

Figure 2 Formation of the Washmills Lagoons (up to 1991)

Technical Note

67941-42

9 June 2016

The Washmills Lagoons (for the Washing Plant) are located at south-western part of the former Alkerden Farm Quarry, which had been excavated in three phases:

- Phase 1: excavated throughout to a level of around +4mOD to +5mOD, without dewatering.
- Phase 2: excavated across the western half in cells, adopting local dewatering, to a lowest level of -6.7mOD with some cells only partially excavated and cell walls remaining intact at +4mOD to +4mOD.
- Phase 3: excavated through the eastern half to a level of -6.7mOD using general quarry dewatering.

The lagoons were formed from four cellular excavations created during Phase 2 (see Figure 2a). Figure 2a was extracted from an undated drawing, from the available aerial photographs and survey drawings the drawing should be dated between 1975 and 1978. There is a note “D cut to -6.7mOD” given next to the lagoons. It is noted from the Desk Study ([Arup, 2002](#)) that some cells were abandoned before the full depth could be reached (when the ingress of water exceeded the available pumping capacity). The target excavation level of -6.7mOD concurs with the maximum excavation depth allowed by planning authority consents up to the late 1980s.

The quarry cells to the north of the lagoons have been progressively backfilled. The End of Year Survey 1979 drawing shows all the cells apart from the four cells which form the Washmills Lagoons have been backfilled (see Figure 2b). A level of +6.7mOD is annotated close to the lagoons.

A panoramic photograph of the same year (September 1979) is shown in Figure 3 below. It can be seen that locations for Lagoons B to D have been excavated and apparently filled with water. Machineries are shown at the location of Lagoon A, which is probably being excavated.



Figure 3 Panoramic photograph dated September 1979 (view north from Cherry Orchard to No. 1 Face)

The location of the lagoons was annotated “deep dig” on the End of Year Survey drawings until 1983. In 1984 this annotation was removed. The annotation “lagoon” first appeared in the 1991 drawing (Figure 2c). The drawing also show some features in Lagoon C which are not shown in the previous drawings.

Technical Note

67941-42

9 June 2016

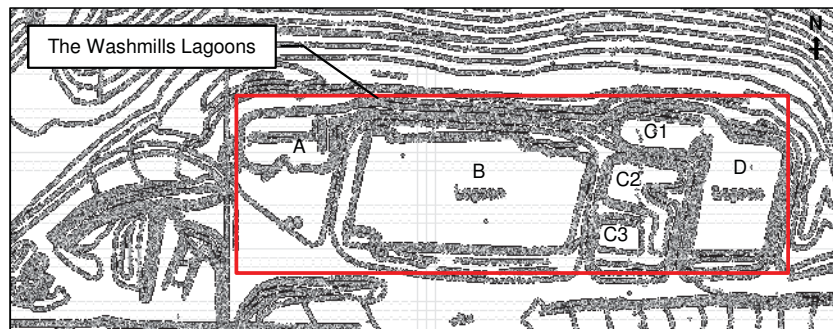
3.2 Change to the lagoons in the early 1990s

The lagoon layout is shown as unchanged in the End of Year Survey drawings until 1993. The aerial photograph dated 1995 shows the lagoon layout have changed (see Figure 4a). No survey drawings are available from 1994 to 1998. The first survey drawing showing the revised lagoon layout is dated 1999 (Figure 4b).

Lagoon C (third from left) is shown to have split into three parts, along previous features in the lagoon (see Figure 2c). The channel to the north of the lagoons are shown to be connecting Lagoon A, the northern part of Lagoon C and Lagoon D. The changes in lagoon layout is relatively minor, without significant changes to the Chalk spines forming the lagoons.



(a) Aerial photograph dated 1995 ([Figure 3.11 of the Arup Desk Study](#))



(b) Layout of the Washmills Lagoons in 1999 ([End of Year Survey 1999](#))

Figure 4 Change to the Washmills Lagoons in the early 1990s

3.3 Further changes to the lagoons in the late 2000s / early 2010s

Aerial photographs show no significant change to the lagoons up to 2007. In the 2005 survey drawing, the contour closest to the lagoons shown is +7mOD. This suggests that the level around the lagoon has not changed much since the 1980s.

Technical Note

67941-42

9 June 2016

The photograph dated 2013 (Figure 5) shows slight changes to the lagoons:

- a trench was dug connecting Lagoons B and C1;
- Lagoons C2 and C3 are apparently connected;
- a trench was dug at the south-eastern corner of Lagoon D (apparently not connected to other features); and
- an opening was created at the north-eastern corner of Lagoon D (possibly allowing flow from the area to the north).



Figure 5 Aerial photograph dated 2013

No further changes are observed up to the latest aerial photograph dated 2015 (Figure 1b).

3.4 Summary

The evolution of the lagoons is summarised below:

- The lagoons were formed from cellular excavations dug in the late 1970s. The target excavation level was -6.7mOD but the Desk Study suggests that excavations may be to a shallower level.
- The location of the lagoons was annotated “deep dig” until 1983. The annotation “lagoon” first appeared in the 1991 drawing.
- There were changes to the lagoon layout in the early 1990s.
- There were further slight changes to the lagoons in the late 2000s / early 2010s.
- The lagoons remained unchanged up to 2015.

Technical Note

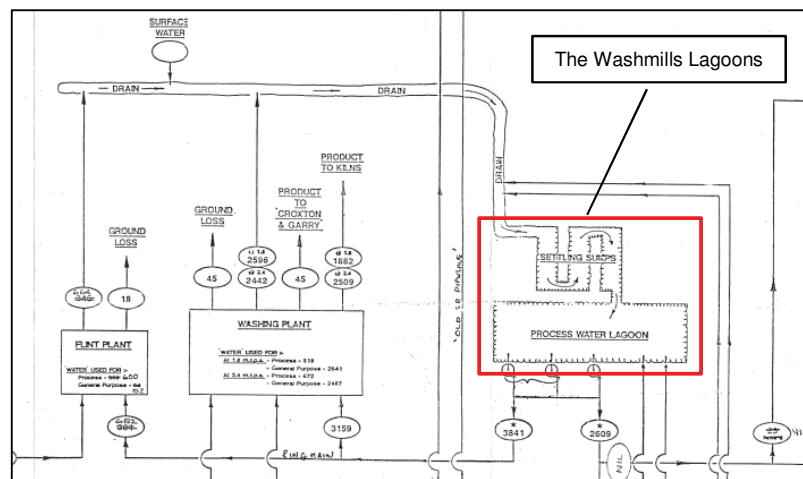
67941-42

9 June 2016

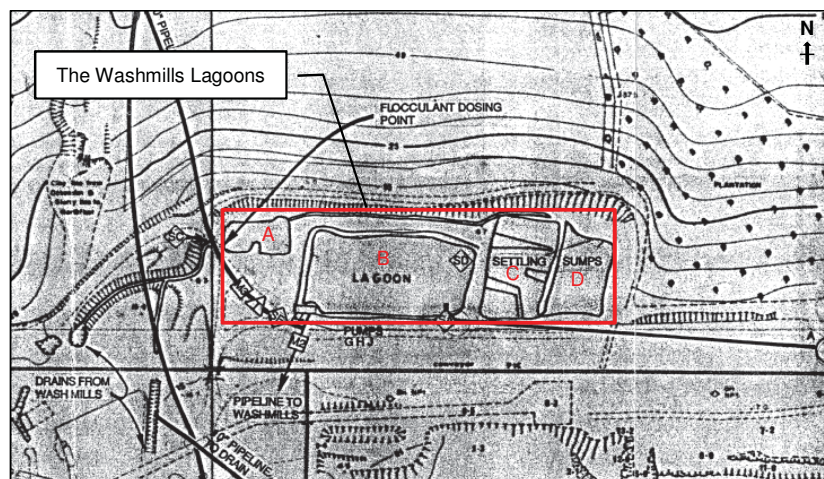
4 Use of the lagoons

The Groundwater Study report ([Groundwater Development Consultants Ltd, 1992](#)) contains a diagrammatic arrangement and a plan of the process water system showing the usage of the lagoons in the early 1990s. These are extracted as Figure 6.

According to Figure 6a, water from the flint and washing plants (bottom left) goes to drains (up) which then flows to the settling sumps, then to the process water lagoon. In the plan extracted as Figure 6b, Lagoon B is labelled the process water lagoon; Lagoons C and D are labelled the settling sumps. The usage for Lagoon A is unclear.



(a) Process water system diagrammatic arrangement



(b) Enclosure 3 Eastern Quarry current dewatering and drainage plan

Figure 6 Extracts from the Groundwater Study
([Groundwater Development Consultants Ltd, 1992](#))

Technical Note

67941-42

9 June 2016

5 Deposition materials and potential contamination

5.1 Deposition materials

No specific information was revealed from the research, apart from that usage of the lagoons is confirmed to be settlement sumps and lagoon for the Washing Plant.

From the usage of the lagoons, it can be expected that there would be more materials deposited in the settling sumps (Lagoons C and D, potentially also Lagoon A?) than the water lagoon (Lagoon B). This concurs with observations from aerial and panoramic photographs.

5.2 Potential contamination

No specific information was revealed from the research, apart from that there are no bulk hazardous chemicals used in the washing process and the potential for ground contamination of the Washing Plant area is very low (Section 7.2.2 of the [Desk Study](#)).

Technical Note

67941-42

9 June 2016

Appendix A – Google Earth Images

Aerial photographs from Google Earth Professional are shown in Figures A1 to A10. Observations from these photographs are summarised in Table A1 below.

Table A1 Observations from aerial photographs available on Google Earth Professional

Date	Notes
December 1940	Vegetated area, lagoons yet to be constructed
December 1960	Vegetated area, lagoons yet to be constructed
December 1990	Blurry image but largest lagoon can be clearly seen. The other lagoons seem to be in place but cannot be clearly seen.
December 1999	Lagoon A – white in colour, apparently shallow with a row of vegetation along the middle Lagoon B – pale green in colour Lagoon C – mostly covered with vegetation Lagoon D – pale blue in colour Channel between A and D
December 2003	Almost identical to the photo above. Date is probably wrong on one or both photos.
November 2006	Lagoon A – only a channel on the perimeter is left, slip (?) feature removed Lagoon B – sky blue in colour, looks shallow Lagoon C – mostly covered with vegetation Lagoon D – white in colour, apparently very shallow water with water channels
May 2007	Similar to above, with some changes in vegetation
July 2013	Lagoon A – presumably dried up, entire lagoon covered with vegetation Lagoon B – dark blue/green in colour, almost completely covered with vegetation (over water?) Lagoon C – green in colour, change shape of lagoon, change in pattern and type of vegetation, there is now a channel from B to C to D Lagoon D – dark green in colour, apparently deeper in the south, change in shape of lagoon
April 2015	Similar to above
June 2015	Similar to above, slight changes in vegetation

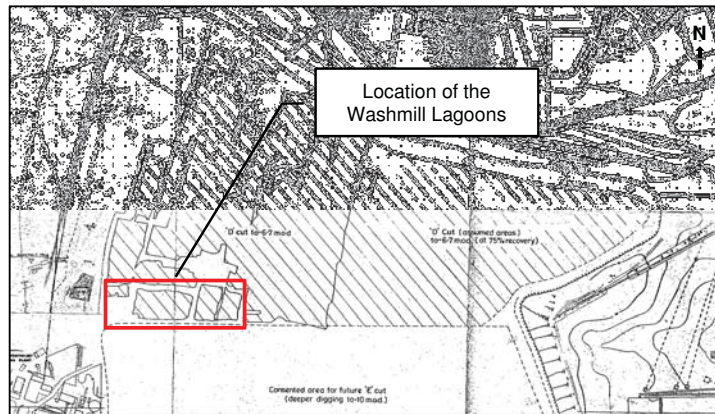
Technical Note

67941-42

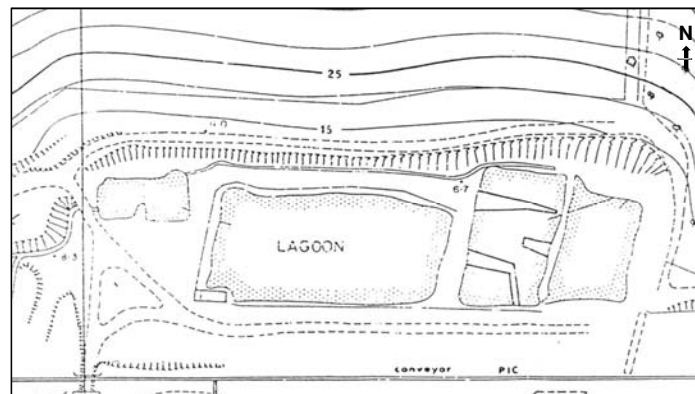
9 June 2016

Appendix B – Information from the Desk Study

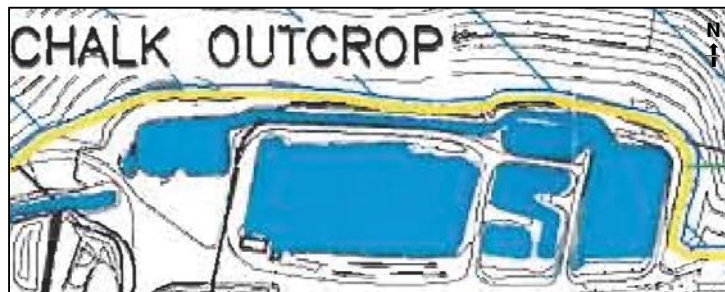
Aerial photographs, plans and other information are contained in the site-wide Desk Study ([Arup, 2002](#)). Relevant information is extracted in the Figure B1 and Table B1.



(a) Prior to formation of lagoons ([Figure A3 of the Arup Desk Study](#))



(b) Layout of the Washmill Lagoons pre change in lagoon layout
([GW BH Locations Lafarge.pdf](#))



(c) Layout of the Washmill Lagoons post change in lagoon layout
([Figure 3.13 of the Arup Desk Study](#))

Figure B1 Evolution of the Washmill Lagoons

Technical Note

67941-42

9 June 2016

Table B1 Information from the Desk Study (Arup, 2002)

Location	Description	Notes
Section 3.2.2	Review of aerial photography Alkerden Farm and Cherry Orchard Quarries	The available aerial photography does not cover the period between 1938 and 1974 and consequently the main part of the case has not been observed from the air. However, aerial photographs from the early 1930s and 1940s are available and these show the quarry and the surrounding area. The quarry is a large, roughly rectangular area, with a small, irregularly shaped area to the north. The quarry is a large, roughly rectangular area, with a small, irregularly shaped area to the north. The quarry is a large, roughly rectangular area, with a small, irregularly shaped area to the north.
Section 3.4	History of the site Summary of site history	<u>Summary of site history</u> • excavated through the level of the quarry to a depth of 10m, with a view to the quarry. • excavated through the level of the quarry to a depth of 10m, with a view to the quarry. • excavated through the level of the quarry to a depth of 10m, with a view to the quarry.
Section 4.1	Walkover survey Cherry Orchard Quarry	It was noted in the Cherry Orchard Quarry that the excavated chalk level, which was found to be at a level of about 10m, was found to be at a level of about 10m. The excavated chalk level, which was found to be at a level of about 10m, was found to be at a level of about 10m.
Section 6.1	Hydrogeological setting	Like to the site of the quarry, the chalk level, which was found to be at a level of about 10m, was found to be at a level of about 10m. The excavated chalk level, which was found to be at a level of about 10m, was found to be at a level of about 10m.
Section 6.4.1	Groundwater management in the Swanscombe Area Eastern Quarry	The chalk level, which was found to be at a level of about 10m, was found to be at a level of about 10m. The excavated chalk level, which was found to be at a level of about 10m, was found to be at a level of about 10m.

Technical Note

67941-42

9 June 2016

Table B1 (continued) Information from the Desk Study (Arup, 2002)

Location	Description	Notes
Section 7.2.2	Geo-environmental condition Wash Plant Area	The wash plant was established on the quarry floor in the early 1980s, around 100m from the quarry. It was used for washing the aggregate produced from the quarry. The wash plant was located in the quarry floor, and the aggregate was transported to the wash plant by a conveyor system. The wash plant was used for washing the aggregate produced from the quarry. The wash plant was located in the quarry floor, and the aggregate was transported to the wash plant by a conveyor system. The wash plant was used for washing the aggregate produced from the quarry. The wash plant was located in the quarry floor, and the aggregate was transported to the wash plant by a conveyor system. There is a potential for contamination of the wash plant due to the use of aggregate. The wash plant was located in the quarry floor, and the aggregate was transported to the wash plant by a conveyor system. The wash plant was used for washing the aggregate produced from the quarry. The wash plant was located in the quarry floor, and the aggregate was transported to the wash plant by a conveyor system. During the period, with the Environment Agency in 1999, the Agency decided a pollution control scheme. The quarry floor was covered with a layer of aggregate, and the wash plant was located in the quarry floor. The wash plant was used for washing the aggregate produced from the quarry. The wash plant was located in the quarry floor, and the aggregate was transported to the wash plant by a conveyor system. The quarry floor was covered with a layer of aggregate, and the wash plant was located in the quarry floor. The wash plant was used for washing the aggregate produced from the quarry. The wash plant was located in the quarry floor, and the aggregate was transported to the wash plant by a conveyor system.
Figures 3.1 to 3.5	Aerial photos dated before 1967	The lagoon area was vegetated area, the quarry is yet to be extended to this area.
Figures 3.6 to 3.7	Aerial photos dated 1970 and 1972	The quarry being extended to this area.
Figure 3.8	Aerial photos dated 1981	First photo showing the settlement lagoons. Lagoons were constructed between 1972 and 1981.
Figure 3.9	Aerial photos dated 1985	Similar
Figure 3.10	Aerial photos dated 1987	Similar
Figure 3.11	Aerial photos dated 1995	Lagoon layout has changed.
Figure 3.12	Aerial photos dated 1999	Similar
Figure 3.13	Schematic map showing lagoons	
Figure 6.1	Ground water monitoring boreholes and significant groundwater features	Lagoons referred to as the Washmills Lagoons. Boreholes NP1 to NP3 are nearby.
Figure 6.5	Groundwater monitoring Cherry Orchard Quarry (1985)	Groundwater level was around +6.5 to +7.0mOD
Figure A1	Eastern Quarry Survey January 2001 Blue Circle Industries Plc	Layout of lagoons post change in lagoon layout
Figure A2	End of Year Quarry Survey 1997 Blue Circle Industries Plc	Layout of lagoons pre change in lagoon layout. Level of +6.7mOD noted close to the lagoons
Figure A3	“Top of Chalk” Drawing (excavated levels, undated) Blue Circle Industries Plc	Lagoon areas shaded with note “D-cut to -6.7mOD”

Technical Note

67941-42

9 June 2016

Appendix C – Lafarge End of Year Survey

Observations from the Lafarge (Blue Circle) End of Year survey drawings are summarised in Table C1. The Desk Study noted that these topographic surveys are provided in feet until 1975, thereafter in metres above Ordnance Datum.

The evolution of the lagoons from selected drawings is shown in Figure C1.

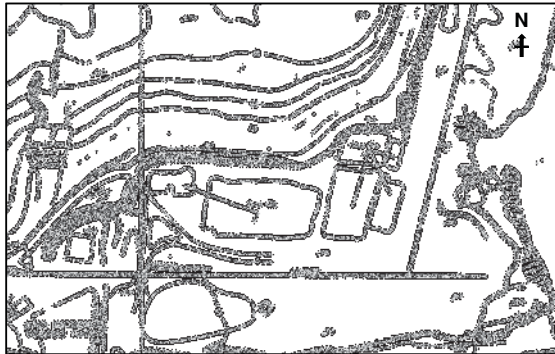
Table C1 Observations from Lafarge End of Year Survey drawings

Date	Notes
End of Year Survey 1974.pdf End of Year Survey 1975 c.pdf	No lagoons
1976	Survey drawings do not cover area of the lagoons.
End of Year Survey 1978 b.pdf	First appearance of the lagoons, annotated “deep dig” (so presumably not used as settlement lagoons yet). A level of +7.6mOD is annotated close to the lagoons.
End of Year Survey 1979 b.pdf End of Year Survey 1979 c.pdf	Two cells north of the lagoons were backfilled. The lagoons are still annotated “deep dig”. A level of +6.7mOD is annotated close to the lagoons.
End of Year Survey 1980 b.pdf	Topography around the lagoons changed, but the lagoons remains unchanged and still annotated as “deep dig”.
End of Year Survey 1981 b.pdf End of Year Survey 1982 b.pdf End of Year Survey 1983 b.pdf	No change to the lagoons.
End of Year Survey 1984 b.pdf	No change to the lagoons, but annotation “deep dig” was taken away. The short lines appear to be remains of annotation arrows rather than actual features.
End of Year Survey 1985.pdf End of Year Survey 1986 e.pdf End of Year Survey 1987.pdf End of Year Survey 1988 b.pdf End of Year Survey 1989.pdf End of Year Survey 1990 c.pdf	No change to the lagoons.
End of Year Survey 1991 b.pdf	First appearance of the annotation “lagoon”. Features are shown within Lagoon C.
End of Year Survey 1993 b.pdf	No change to the lagoons.
1994	Survey drawings do not cover area of the lagoons.
End of Year Survey 1999 b.pdf	Layout of the lagoons changed. Levels annotated closest to the lagoons are +8.4 to +8.5mOD.
End of Year Survey 2000.pdf	No change to the lagoons.
End of Year Survey 2001 b.pdf	Drawing titled Geotechnical zones (excavations and tips). Lagoons were annotated “T7” (tip zone).
End of Year Survey 2005 e.pdf	Detailed contours (every metre) is shown around the lagoons. The contour closest to the lagoons is +7mOD.
2007	Survey drawings do not cover area of the lagoons.
UKTD_NC002_APRIL_2008.dwg	Latest Autocad drawing in the folder

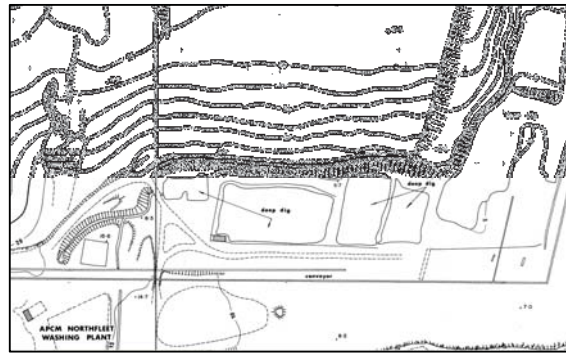
Technical Note

67941-42

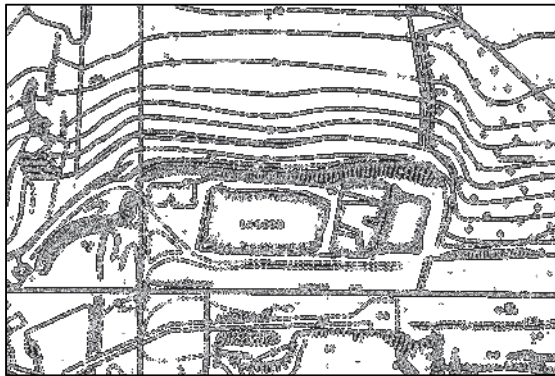
9 June 2016



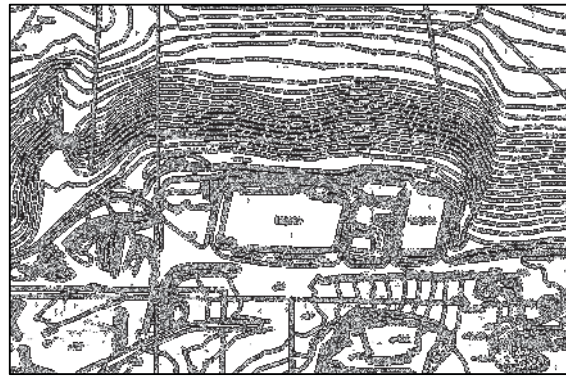
(a) 1978 ([End of Year Survey 1978 b.pdf](#))



(b) 1979 ([End of Year Survey 1979 b.pdf](#))



(c) 1991 ([End of Year Survey 1991 b.pdf](#))



(d) 1999 ([End of Year Survey 1999 b.pdf](#))



(e) 2005 ([End of Year Survey 2005 e.pdf](#))

Figure C1 Evolution of the Washmill Lagoons from Lafarge (Blue Circle) End of Year Survey drawings

Technical Note

67941-42

9 June 2016

Appendix D – Historical panoramic photographs

Links to selected panoramic photographs which shows the lagoons are given in Table D1.

Table D1 Observations from Lafarge historical panoramic photos

Date	Link	Notes
September 1979	Eastern Quarry - View North from Cherry Orchard to no1 face - Sept 1979.pdf	Excavation of the Lagoon A in September 1979. Lagoons B to D have been excavated. Lagoons B and D were apparently filled with water.
September 1980	Eastern Quarry - View North from Cherry Orchard to No1 face - Sept 1980.pdf	Similar to above, Lagoon A cannot be seen clearly.
September 1984	Northfleet Quarry East - View East into Cherry Orchard Area - September 1984.pdf	
August 1985	Northfleet Quarry East - View South into Cherry Orchard Area - August 1985.pdf	Photo of the lagoons looking south-east.
September 1988	Northfleet Quarry East - View North from Cherry Orchard - September 1988.pdf	Photo of the lagoons looking north-west.
September 1991	Northfleet Quarry East - View East into Cherry Orchard - September 1991b.pdf	
October 1993	Northfleet Quarry East - View East into Cherry Orchard Area - October 1993.pdf	
September 1998	Northfleet Quarry East - View South Into Cherry Orchard Area - September 1998.pdf	Limited view of the lagoons.
Undated	John Lowman frame.pdf	
Undated	No Name 2.pdf	

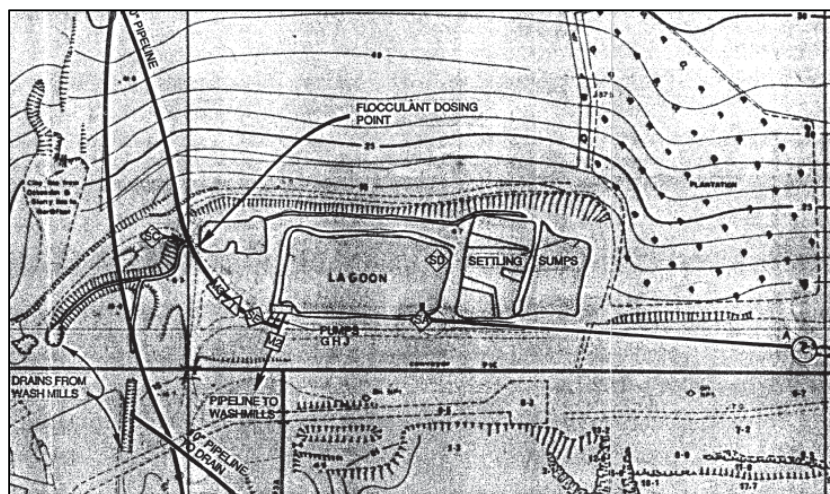
Technical Note

67941-42

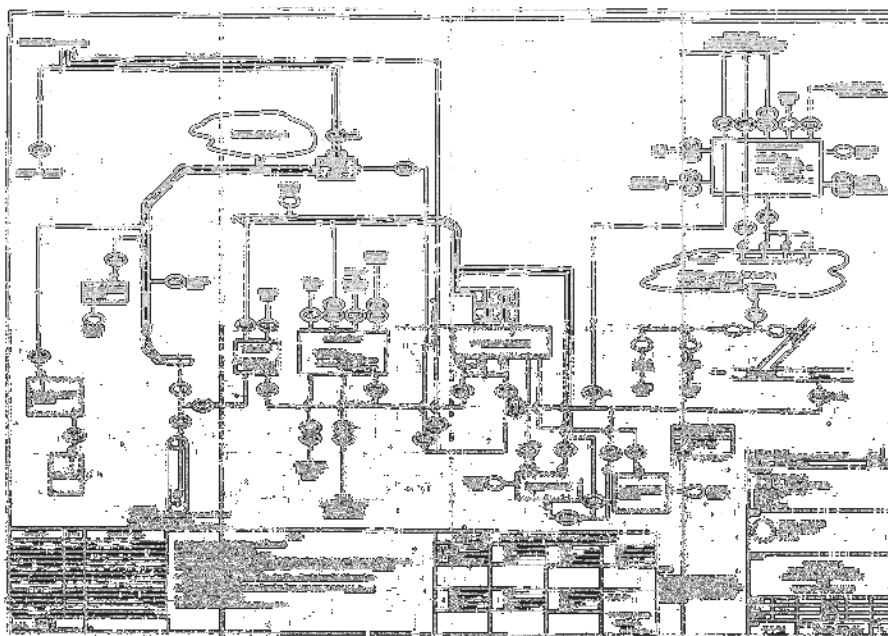
9 June 2016

Appendix E – Groundwater study

Drawings contained in the document titled Groundwater Study at Blue Circle Cement Northfleet Works ([Groundwater Development Consultants Ltd, 1992](#)) are extracted below.



(a) Extract from drawing titled "Enclosure 3 Eastern Quarry current dewatering and drainage plan" (Mott MacDonald Water Supply drawing no. 70693/WSD/002 Rev P1, dated October 1992)



(b) Extract from drawing titled "Enclosure 2 process water system diagrammatic arrangement and water flow balance" (Mott MacDonald Water Supply drawing no. 70693/WSD/003 Rev P, dated July 1992)

Figure E1 Extracts from the Groundwater Study
([Groundwater Development Consultants Ltd, 1992](#))

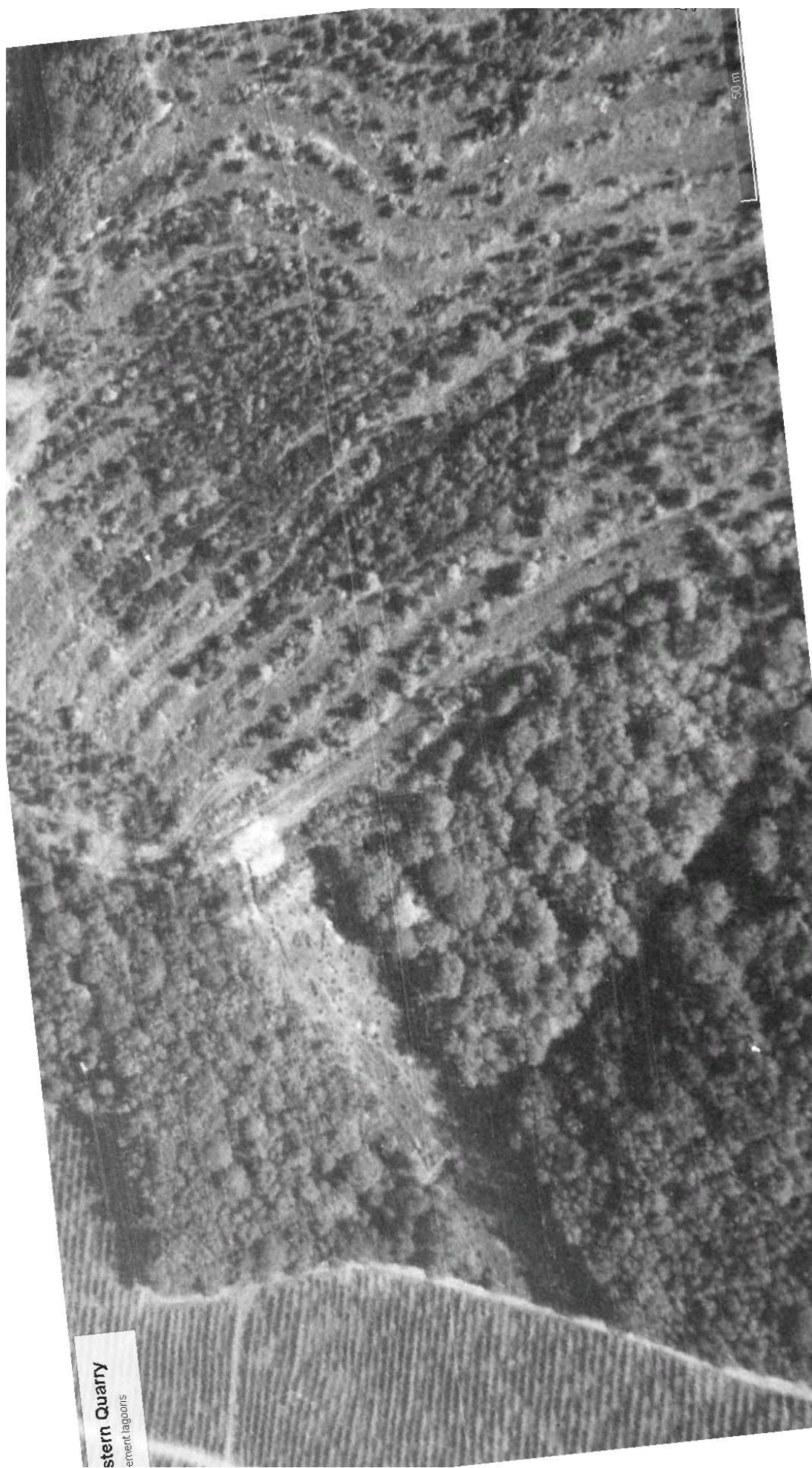
Technical Note

67941-42

9 June 2016

DOCUMENT CHECKING (not mandatory for File Note)

	Prepared by	Checked by	Approved by
Name	Vivien Kwan	Anna Morley	Anna Morley
Signature			

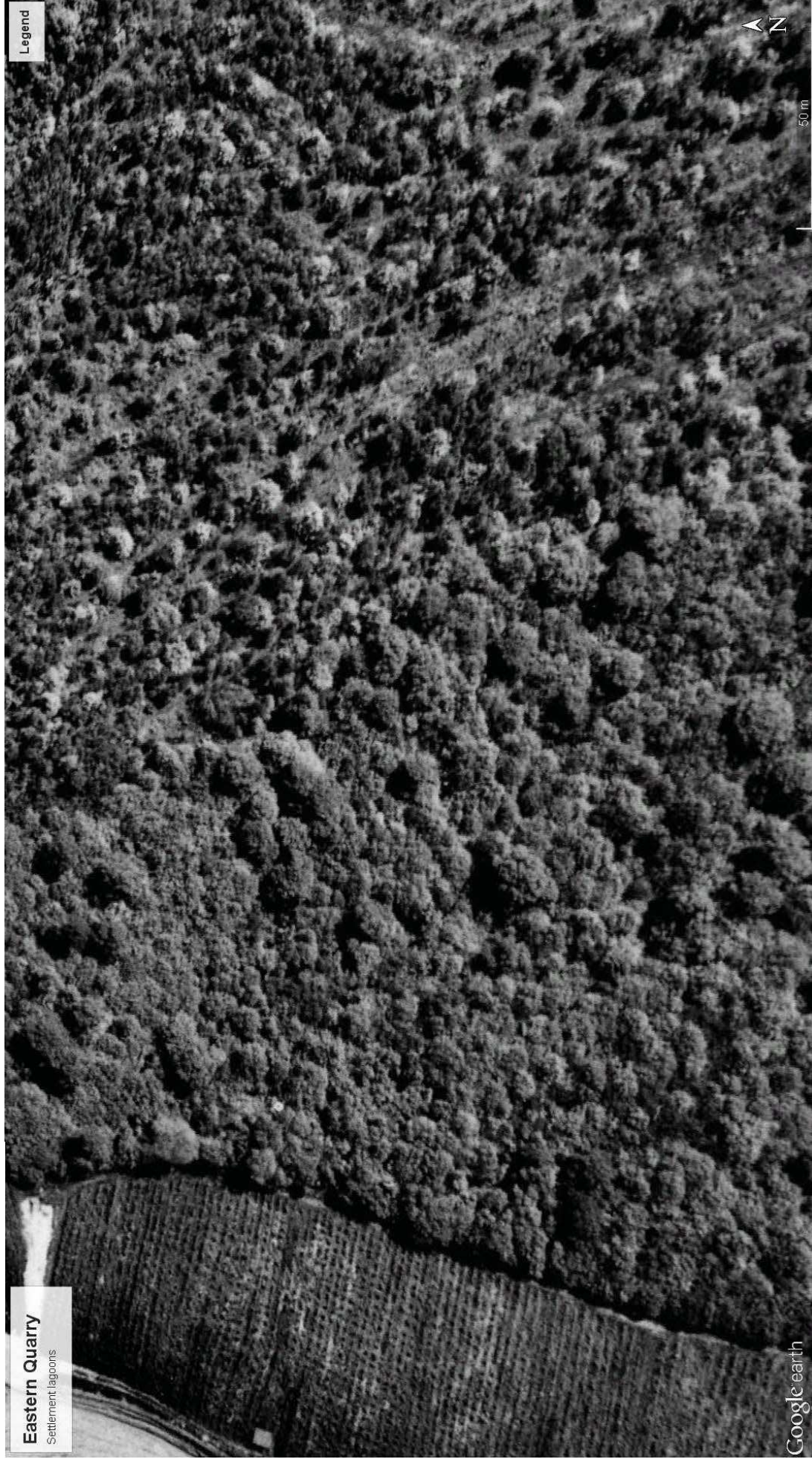


EASTERN QUARRY

GOOGLE EARTH IMAGE
DECEMBER 1940

67941-42

FIGURE A1



EASTERN QUARRY

GOOGLE EARTH IMAGE
DECEMBER 1960

67941-42

FIGURE **A2**



EASTERN QUARRY

**GOOGLE EARTH IMAGE
DECEMBER 1990**



EASTERN QUARRY

GOOGLE EARTH IMAGE
DECEMBER 1999

67941-42

FIGURE **A4**



EASTERN QUARRY

GOOGLE EARTH IMAGE
DECEMBER 2003



EASTERN QUARRY

GOOGLE EARTH IMAGE
NOVEMBER 2006

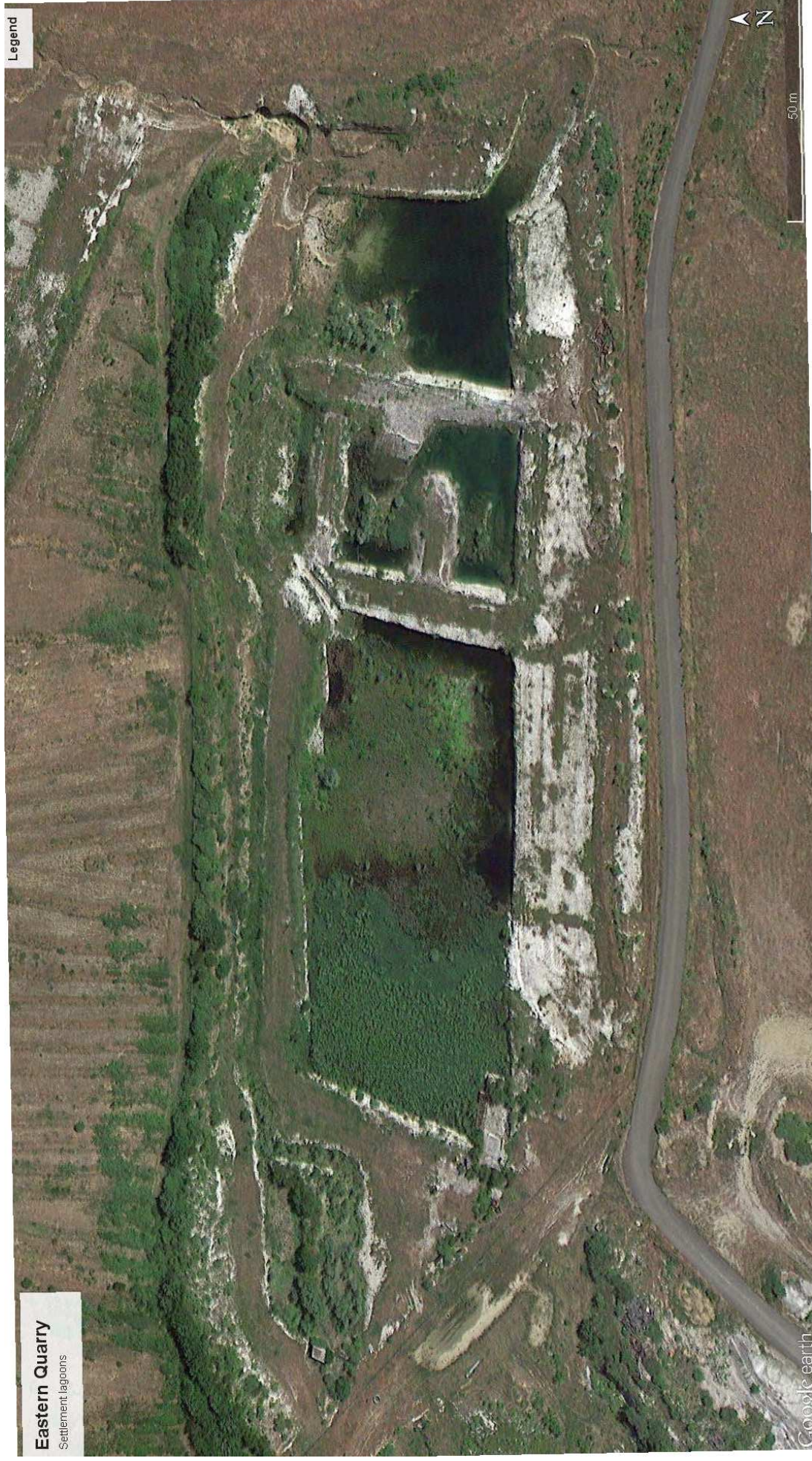


EASTERN QUARRY

GOOGLE EARTH IMAGE
MAY 2007

67941-42

FIGURE **A7**

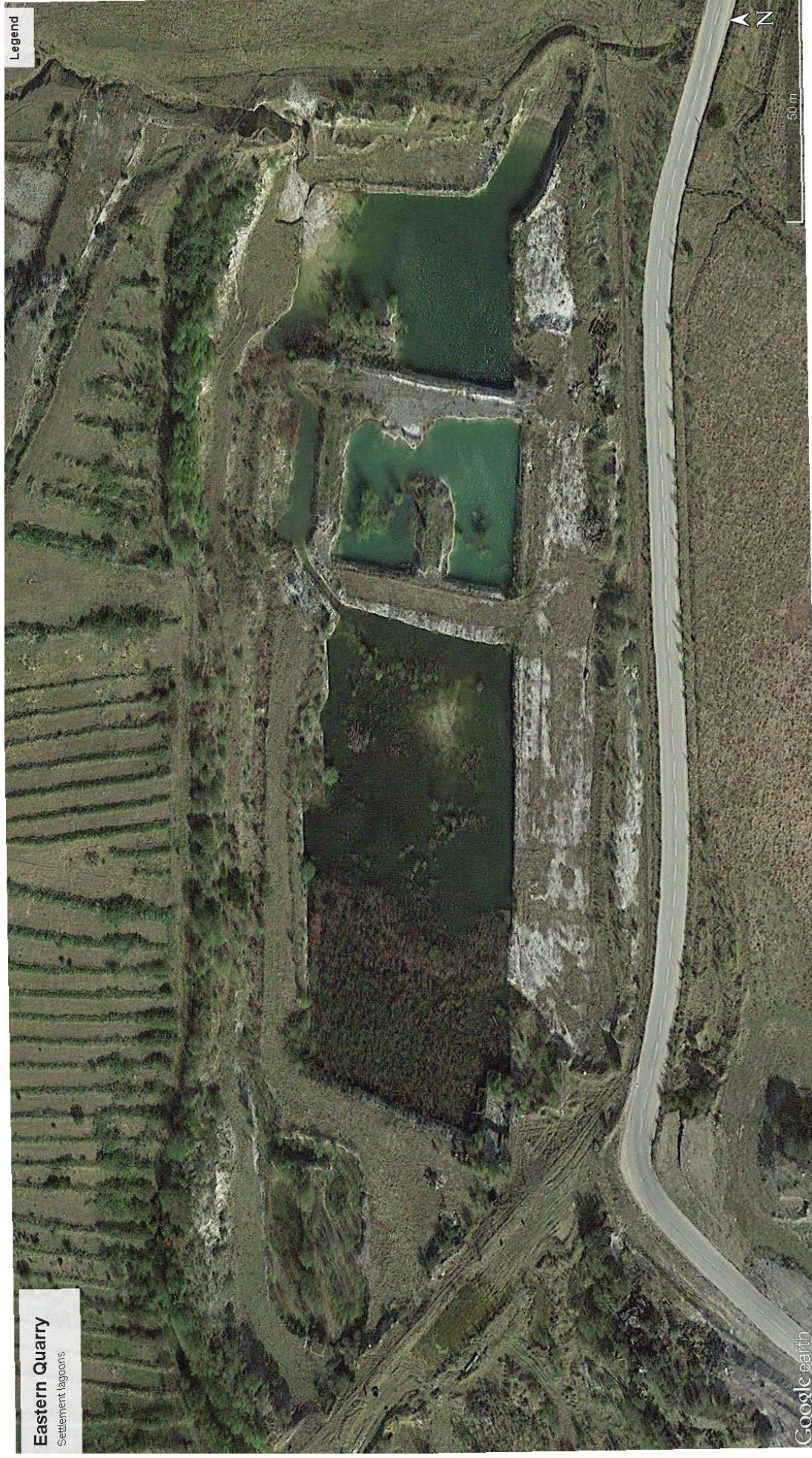


EASTERN QUARRY

GOOGLE EARTH IMAGE
JULY 2013

67941-42

FIGURE **A8**

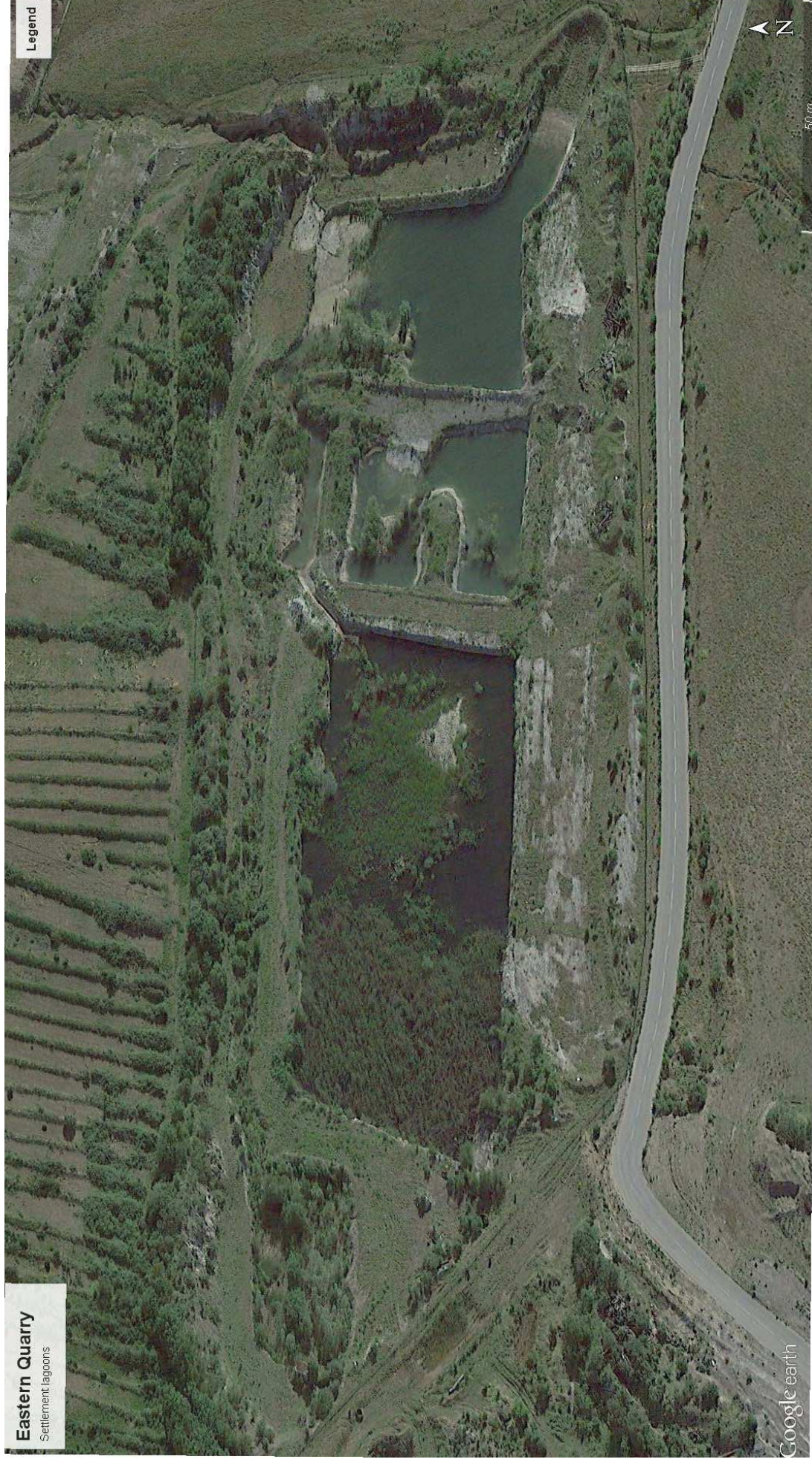


EASTERN QUARRY

GOOGLE EARTH IMAGE
APRIL 2015

67941-42

FIGURE **A9**



EASTERN QUARRY

GOOGLE EARTH IMAGE
JUNE 2015

Appendix E

Verification Report Drawing

Appendix F

Contaminated land planning
condition 35

Subject Planning condition 35

Date -

Job No/Ref 250122-00

The outline planning consent (DA/12/01451/EQVAR) includes a set of conditions relating to ground contamination (planning condition 35). This is reproduced below for reference:

No development approved pursuant to Condition 2 (except that area covered by the separate approved land forming permission DA/04/01170) shall be commenced prior to a contaminated land assessment (in accordance with the CLEA guidelines and methodology) and associated remedial strategy, together with a timetable of works, for that area, being submitted to the Local Planning Authority for approval.

1. The contaminated land assessment shall include a desk study to be submitted to the Local Planning Authority for approval. The desk study shall detail the history of the site uses and propose a site investigation strategy based on the relevant information discovered by the desk study. The strategy shall be approved by the Local Planning Authority prior to investigations commencing on site (ref1).
2. The site investigation, including relevant soil, soil gas, surface and groundwater sampling, shall be carried out by a suitably qualified and accredited consultant/contractor in accordance with a Quality Assured sampling and analysis methodology (ref 2).
3. A site investigation report detailing all investigative works and sampling on site, together with the results of analysis, risk assessment to any receptors and a proposed remediation strategy shall be submitted to the Local Planning Authority. Prior to any remediation commencing on site, approval shall be obtained from the Local Planning Authority of any such remedial works required. The works shall be of such a nature so as to render harmless the identified contamination given the proposed end-use of the site and surrounding environment including any controlled waters.
4. Approved remediation works shall be carried out in full on site under a quality assurance scheme to demonstrate compliance with the proposed methodology and best practice guidance (ref 3). If during any works contamination is encountered which has not previously been identified then the additional contamination shall be fully assessed and an appropriate remediation scheme agreed with the Local Planning Authority.
5. Upon completion of the works, this condition shall not be discharged until a closure report has been submitted to and approved by the Local Planning Authority. The closure report shall include details of the proposed remediation works and the quality assurance certificates to show that the works have been carried out in full in accordance with the approved methodology. This shall include photographic evidence. Details of any post remediation sampling and analysis to show the site has reached the required clean-up criteria shall be included in the closure report together with the necessary documentation detailing what waste materials have been removed from the site.

Ref 1: Contaminated Land Research Report no. 2, 3 & 4 (DoE)

Ref 2: Contaminated Land Research Report no. 1 (DoE)

Ref 3: CIRIA Vols 1-12 Contaminated Land Series and CIRIA -Building on Derelict Land

Appendix G

Planning decision notice

Barton Willmore
Theale Court
11-13 High Street
Theale
Reading
RG7 5AH

BARTON WILLMORE PLANNING	
RECEIVED	
15 MAY 2008	
Seen by:	
File:	
Action:	AS
By:	Date:



Reference Code of
Application DA/08/00278/EQCON

**TOWN AND COUNTRY PLANNING ACT 1990
TOWN AND COUNTRY PLANNING (GENERAL DEVELOPMENT PROCEDURE)
ORDER 1995**

Notification of approval of Details submitted in
respect of permission granted on 13.11.2007
under reference code DA/03/01134/OUT

TAKE NOTICE that the **DARTFORD BOROUGH COUNCIL**, the district planning authority under the Town and Country Planning Acts, has in pursuance of the application registered on 22nd February 2008

APPROVED THE DETAILS described in that application in respect of the development of land at **Eastern Quarry Swanscombe** and being **Submission of geotechnical interpretative report and ground contamination strategy pursuant to sub sections 1,2 and part of 3 of Condition 35 of DA/03/1134**

As shown in Ground Contamination Strategy dated 18.2.08 ref: Y-OA-XXX-XX-RP-EV-471-0001; EQ2: Castle Hill and Weldon Geotechnical Interpretative Report Ph II and III Vol 1, ref: Y-OA-XXX-XX-PR-CG-272-0001.

INFORMATIVES

01 For the avoidance of doubt a site investigation report for Alkerden, Western Cross and the leisure peninsula are still required to be approved. The developer is also reminded of Parts 4 and 5 of Condition 35.



Signed.....
Rob Scott – Director of Regeneration

Dated this 13th May 2008

Your attention is drawn to the notes attached.

Ebbsfleet Investments (GP) Ltd
c/o Alyson Jones/Barton Willmore
Theale Court
11-13 High Street
Theale
Reading
RG7 5AH

Reference Code of
Application DA/08/00535/EOFUL

BARTON WILLMORE PLANNING	
RECEIVED 15 MAY 2008	
Sent by	<i>[Signature]</i>
To	
Action	<i>X</i>
By:	Date:

**TOWN AND COUNTRY PLANNING ACT 1990
TOWN AND COUNTRY PLANNING (GENERAL DEVELOPMENT PROCEDURE)
ORDER 1995**

**Notification of Grant of permission
to Develop Land**

TAKE NOTICE that the **DARTFORD BOROUGH COUNCIL**, the district planning authority under the Town and Country Planning Acts, **HAS GRANTED PERMISSION** for the development of land situated at
Eastern Quarry Watling Street Swanscombe Kent

referred to in your application for permission for development registered on the 8th April 2008

and being

Provision of a new pedestrian footpath to link Southfleet Road and station access road

As shown in Details set out in condition 2.

Permission is GRANTED subject to the following condition(s):

- 01 The development hereby permitted shall be begun before the expiration of three years from the date of this approval.
- 02 The details hereby approved shall be carried out in full accordance with the following details unless agreed in writing by the Local Planning Authority:
Drawing numbers: G-OA-HP1-XX-DR-PL-077-0001 Rev 1.2; G-OA-HP1-XX-DR-PL-077-0003 Rev 1.1
- 03 No excavation work shall be undertaken in relation to the footpath hereby approved until the implementation of a programme of archaeological work has been secured in accordance with a written specification and timetable which has been submitted to and approved by the Local Planning Authority. The programme of works shall relate to all those works which impact on the existing ground level including removal of topsoil, grubbing out of roots, any excavation or digging, and service installation. The work on site shall be carried out in full accordance with the approved details unless otherwise approved in writing.

- 04 Details of the street lighting along the footpath shall be submitted to and approved by the Local Planning Authority. Such lighting shall be installed in accordance with the approved details and shall be brought into operation prior to the use of either of the junctions hereby approved and shall be maintained as such unless otherwise agreed in writing by the Local Planning Authority.

and for the following reason(s):

- 01 In pursuance of section 91 of the Town and Country Planning Act 1990.
02 In order to ensure that the works are carried out in accordance with the approved details to the satisfaction of the Local Planning Authority.
03 To ensure that features of archaeological interest are properly examined and recorded.
04 In the interests of highway safety.

Reasons for approving applications:

In the view of the Borough Council, having taken all material considerations into account, there is insufficient demonstrable harm or conflict with policy arising from the proposal to warrant refusing the application. In coming to this decision, particular regard has been had to the Kent and Medway Structure Plan policies and:

Dartford Borough Local Plan 1995: T31.

Dartford Borough Local Plan Review Second Deposit Draft 2002: DD2.



Signed.....
DIRECTOR OF REGENERATION

Dated this 13th May 2008

Your attention is drawn to the notes attached.

Appendix H

Blue Circle Washing Plant
layout plan (1984)

Appendix I

Ground investigation
methodology

Subject Appendix I Ground investigation methodology

Date -

Job No/Ref Western Cross

Scope of investigation

The scope of the site wide ground investigation proposed before the cut and fill occurs is described below. This may be undertaken in a series of phases over a number of years as the earthworks are phased.

- boreholes up to 52m target depth (many shallower);
- trial pits to investigate shallow ground conditions;
- overwater boreholes;
- a soil stockpile audit exercise comprising shallow sampling with machine or hand excavated pits;
- associated geoenvironmental in situ testing, soil sampling and laboratory testing (tests are to be scheduled as required based on cut and fill, the ground conditions encountered, knowledge of the site history and identified potential sources of contamination);
- selected boreholes installed with groundwater monitoring and sampling standpipes and/or piezometers;
- ground gas monitoring and sampling from selected standpipes in areas of shallow cut;
- sampling of lagoon sediment by sub sampling from bucket or by machine excavator; and
- surface water sampling from Western Cross Lake and the Washmill Lagoons.

Following completion of the earthworks, there will be subsequent phases of ground investigation, likely on a plot by plot basis similar to the approach undertaken in the Castle Hill area of the Eastern Quarry site. These will include shallow boreholes, ground gas standpipes, ground gas monitoring, surface flux boxes and laboratory analysis of soil and gas samples.

Frequency of sampling

Sampling is required from boreholes and trial pits during the main investigation as follows.

Location	Sampling strategy
For holes in areas of potentially contaminated land	• The first sample to be taken at a varying depth between ground level and 0.3m, the second sample should be taken between 0.3m and 1.0m and thereafter every 1m or change of strata in the Made Ground. • If that exploratory hole continues into reworked natural soils after the Made Ground then one sample should be taken every 2m in this material. • One sample should also be taken at 0.5m into the natural undisturbed soils beneath the Made Ground/ quarry backfill. • Additional samples should be taken of natural soils at a frequency of at least one every 1m if they appear to be contaminated.
For other holes on land excavating quarry	• Sampling of soils that appear to be reworked natural materials (with no significant anthropogenic content) should be undertaken down to a depth of 5m below the proposed 'cut' level identified in Schedule 2 and to a minimum of 5m (i.e. in areas of fill).

Location	Sampling strategy
overburden or natural soils	- The frequency of sampling is one every 2m for the first 12m and thereafter every 3m to the base of the proposed cut depth plus 5m. - If significant anthropogenic material is encountered within the quarry overburden the Contractor shall inform the Investigation Supervisor. The anthropogenic or suspected contaminated material will itself be sampled and the sampling frequency should be increased to one sample every metre and every change in strata in that material. - Samples of the natural in-situ soils are generally not required. Samples should only be taken where they are above the proposed cut level plus 5m or where they appear to be contaminated.
Sampling of lagoon sediment	- The lagoons will be drained. The contractor shall use an excavator from the side of the lagoon to excavate a bucket of the sediment and a sub sample will be taken from the bucket. - If the depth of lagoon sediment is significant additional buckets maybe required as agreed with the Investigation Supervisor.
For over water investigation option	- Sampling of soils shall be completed for the entire depth of reworked overburden, or silt, encountered overlying the structured chalk. The frequency of sampling is one every 2m for the first 12 metres in this material and thereafter every 3m down to the structured chalk. - If the overburden or silt appears to be contaminated the frequency of sampling will increase in this material to one sample every 1m, and for each significant change in strata. - No sampling is required in the structured chalk unless it appears contaminated.
Sampling for the stockpile audit option	- The sampling frequency and depth required for the stockpile audit will be specified by the Investigation Supervisor. - An allowance of 55 samples has been included for this and samples will be taken either by machine excavator or hand pit, whichever is more efficient. - The Contractor shall initially prepare a plan of the stockpiles and agree the locations and depth of samples with the Investigation Supervisor prior to sampling.

Samples for contamination and land quality testing shall be representative of the conditions encountered and shall not be collected at strata boundaries.

Sampling method

All samples shall be taken by, or under the supervision of, an environmental scientist or geoenvironmental engineer or geochemist.

Each sample suite collected for contamination/WAC testing shall comprise the following:

- vial(s) for volatile hydrocarbon analysis;
- amber glass jar(s) for hydrocarbon soil analysis. Depending on size, multiple jars may be required to achieve analysis; and
- plastic tub(s) for inorganic, metals and WAC leachability soil analysis. Depending on size and soil type multiple tubs may be required to achieve analysis including leachability.

The vial(s) for volatile hydrocarbon analysis will be collected first, followed by the amber glass jar(s) and then the plastic tub(s). The number of containers taken in each case will be sufficient to allow all the potential contaminants to be analysed.

Small disturbed samples will be taken with clean stainless steel hand tools and placed in rigid containers made of a material that is non-reactive with the likely contaminants. The hand tools will be cleaned between each sample.

Subject Appendix I Ground investigation methodology

Date

-

Job No/Ref

Western Cross

The containers will be filled to the brim to effectively exclude air. All soil samples will be immediately placed in cooler boxes (with ice packs) and will be kept between $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

The exploratory holes will be logged in accordance with BS5930 and a written log of the material encountered with depth will be provided, indicating the location at which samples are taken. The log will accurately record the type and proportion of anthropogenic material in Made Ground (such as ash, clinker, coal, wood, metal, pottery etc.).

All samples for contamination testing will be subject to screening by a photoionisation detector (PID).

Groundwater monitoring and sampling

Groundwater samples will be recovered from standpipes. An interface probe will be used during the monitoring to establish the presence and thickness of any non-aqueous phase liquid (NAPL).

Groundwater samples will be taken after purging standing water from the installation (unless NAPL is identified in which case an alternative low flow methodology will be adopted). A minimum of three well volumes of water will be purged from sampling wells, or until the well is dry. Purging will be carried out from the upper part of the water column. During purging pH and conductivity levels will be monitored. The sampling equipment will allow discrete depth sampling and cause minimum disturbance to the physical or chemical condition of the groundwater.

Care will be taken to ensure that no cross-contamination occurs either during extraction of the sample from the sampling well or whilst stored and handled prior to analysis. Groundwater samples will be stored in the dark at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

Chemical laboratory soil testing

Selected soil samples from those taken will be analysed for a suite of chemical determinands based on the site conceptual model. The frequency of the samples submitted for analysis will be dependent upon the ground conditions identified. The samples will be selected to ensure representative characterisation of the Made Ground, taking into consideration variability within the strata, including any visual and/or olfactory evidence of contamination. Samples from the underlying natural soils will also be submitted for analysis. Selected samples will be analysed for the suites of determinands listed below.

Determinands
Soil analysis
Suite E1 –General
Antimony, arsenic, beryllium, boron (water soluble), cadmium, chromium (total), copper, lead, mercury, nickel, selenium, vanadium, zinc, cyanide (total), sulphate (water soluble), pH, phenol, total organic carbon
Suite E2 – Asbestos
Asbestos presence in accordance with HSG248 [8] to 0.001% Asbestos identification and quantification in accordance with HSG248 Error! Reference source not found. to .001%
Suite E3 – TPH
Speciated total petroleum hydrocarbons (TPH) by GC-FID with aliphatic/aromatic class separation with criteria working group (CWG) banding

Subject Appendix I Ground investigation methodology

Date -

Job No/Ref Western Cross

Determinands
Suite E4 – PAH & BTEX
Polycyclic aromatic hydrocarbons (PAH) (USEPA16) by GCMS Benzene, toluene, ethyl benzene, m,p-xylene and o-xylene
Suite E5 – VOC and SVOC
Volatile & semi-volatile organic compounds (USEPA8270)
Suite E6 – PCB
Polychlorinated biphenyls (PCB) (speciated WHO12)
Suite E11 – Pesticides
Pesticides
Suite E17 – Carbonate content
Carbonate content, redox potential
Suite I – Waste acceptance criteria (WAC) leachability in line with BS EN 12457 Part 3
Arsenic, barium, cadmium, chromium (total), copper, mercury, molybdenum, nickel, lead, antimony, selenium, zinc, phenol index, chloride, fluoride, sulphate, total dissolved solids, dissolved organic carbon

Groundwater

Selected groundwater samples will be recovered from various standpipes installed in shallow and deep strata across the site and will be analysed for a selection of the suites below based on the objective of the investigation.

Groundwater analysis
Suite F1 – General
pH, hardness, antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc, vanadium, ammoniacal nitrogen, cyanide (total), total phenols, dissolved organic carbon
Suite F2 – TPH
Speciated total petroleum hydrocarbons (TPH) by GC-FID with aliphatic/aromatic class separation with criteria working group (CWG) banding
Suite F3 – PAH & BTEX
Polycyclic aromatic hydrocarbons (PAH) (USEPA16) by GCMS Benzene, toluene, ethyl benzene, m,p-xylene, o-xylene
Suite F4 – VOC and SVOC
Volatile & semi-volatile organic compounds (USEPA8270)
Suite F5 – PCB
Polychlorinated biphenyls (PCB) (speciated WHO12)
Suite F12 – Water samples Pesticides
Pesticides
Suite F14 – Baseline suite
Magnesium, sodium, potassium, sulphates, nitrate, nitrite, ammonia, alkalinity, aluminium, arsenic, calcium, cadmium, chloride, chromium, iron (total), iron (ferrous), iron (ferric), mercury, manganese, molybdenum, nickel, lead, antimony, selenium, sulphate, zinc, TPH CWG, polyaromatic hydrocarbons, BTEX, BOD, COD, pH, copper, beryllium, vanadium, ammoniacal nitrogen, phenols, dissolved organic carbon

Subject Appendix I Ground investigation methodology

Date

-

Job No/Ref

Western Cross

Groundwater analysis
Suite F15 - Thanet sand suite
Iron (total), iron (ferrous), iron (ferric), aluminium, calcium, alkalinity, sodium, chloride, manganese, sulphate, electrical conductivity, redox potential, pH,
Suite F16 - NAPL suite
Only if identified; NAPL fractional and compositional hydrocarbon analysis, and NAPL density and viscosity

Ground gas monitoring and sampling

Ground gas monitoring will be carried out using a ground gas analyser. During monitoring of the standpipes, the concentrations of the following gases shall be measured:

- Methane;
- Hydrogen sulphide;
- Carbon dioxide; and
- Oxygen.

In addition a PID will be used to determine if vapours are present.

The standpipe installation includes a double valve installation. One valve measures from the upper section and a second valve has a suspended tube to one metre above the bottom of the well or one metre above the water level (whichever is higher). If the well is shallow, or water is high, then a suspended tube will not be used.

The procedure shall be as set out below.

1. Measure initial barometric pressure, ambient temperature and differential gas pressure in the standpipe.
2. Take initial gas concentration measurements from each tap valve with portable gas monitoring equipment and PID. Record gas/ vapour concentrations 5s, 30s and 60s after opening each valve.
3. Circulate gas from top of standpipe through the gas monitoring equipment and back into the standpipe via the tap valve with the suspended sampling tube taking readings at one-minute intervals until steady values are achieved or a maximum of 10 minutes.
4. A gas sample will be taken for subsequent laboratory analysis via the tap valve with the suspended tube (one sample from each monitoring round).
5. Take final gas concentration measurements from each tap valve with portable gas monitoring equipment. Record gas concentrations 5s, 30s and 60s after opening each valve.
6. Carry out gas flow measurements.
7. Measure atmospheric pressure at the end of the procedure (attempts will be made to record gas concentrations on days of low atmospheric pressure).

The monitoring frequency and duration is guided by the generation potential of the source and the sensitivity of the approved development. On each monitoring occasion, one sample of gas will be taken for chromatographic analysis. The sample receptacle will comprise either an airtight polytetrafluoroethylene (PTFE) lined bags, Gresham tubes, or suitable alternatives. Gas samples

Subject Appendix I Ground investigation methodology

Date

-

Job No/Ref

Western Cross

will be taken at the same time as in situ gas concentration monitoring for the purposes of comparison/ verification of the monitoring data.

Standpipes

The standpipes will consist of uPVC or HDPE tubing according to BS 3506 Class D or BS 6437 Class 6.0, as applicable, and will not be less than 50mm in diameter. The base of the tubing will be capped and the tubing perforated or slotted to provide an open area of between 10% and 15% of the surface area of the tubing. Holes will not be greater than 5mm in diameter and slots will not be greater than 5mm width. The slotted section will be wrapped in a sewn sleeve or stocking with a pore size of between 100 and 250 microns. The filter will be pea gravel, or similar material, 6-10mm in diameter. The pea gravel will be quartz based and will be washed prior to use. Where the depth of the exploratory hole is greater than the depth to which the filter and tubing are to be installed, then the exploratory hole will be backfilled below the base of the filter with cement/ bentonite grout and a 1m plug of cement/ bentonite paste in bags, or compressed bentonite pellets.

The upper 1m of the uPVC or HDPE tubing will be unperforated and the borehole backfilled by a 0.3m plug of cement/ bentonite paste in bags, or compressed bentonite pellets, and 0.7m of concrete.

The top of the tubing shall be covered with a screw threaded plastic cap having two tap valves. One of the two tap valve assemblies shall have a quick fit compression fitting to enable a 5mm internal diameter tube to be suspended on the underside of the tap valve assembly. The tube shall be hung to within 1m of the groundwater level or base of the standpipe, whichever is the higher.

Laboratory ground gas

Ground gas monitoring is proposed will be undertaken in selected standpipes. Where gas samples are recovered from each round of monitoring these will be analysed for the suite of determinands listed below.

Gas analysis
Suite G1 - general
Carbon dioxide, hydrogen, methane, nitrogen oxygen, hydrogen sulphide



Application: EDC/16/0112

APPROVAL OF DETAILED PLANS AND PARTICULARS

To: **Henley Camland LLP
C/O Mr Mark Novelle
CBRE
Henrietta House
Henrietta Place
London
W1G 0NB**

TAKE NOTICE that the **EBBSFLEET DEVELOPMENT CORPORATION**, the Local Planning Authority under the Town and Country Planning Act 1990, has **APPROVED** detailed plans and particulars submitted on 3rd November 2016 in accordance with condition 35 (part 1 only) of the Notification of Grant of Planning Permission reference 12/01451/EQVAR to Develop Land dated 18 January 2013 in respect of:-

A mixed use development of upto 6250 dwellings & in addition upto 231,000 square metres of built floorspace (in total) for: business premises (B1 (a), (b) and (c)) education community & social facilities (D1 & D2) (schools, libraries, health centres, places of worship, sports leisure centres, community centres, care facilities for the young, old and/or infirm); hotels (C1); theatre (D2); supporting retail (A1, A2, A3, A4 & A5) & leisure (D2) facilities; miscellaneous sui generis uses, ancillary & support facilities. Such development to include; groundworks to provide revised ground contours and development platforms; vehicle parking; laying out open space (including parks, play spaces, playing fields, allotments, lakes and water features, community woodland & formal and informal open space); landscaping; works to create ecological & nature reserves & refuge areas; provision and/or upgrade of services and related service media and apparatus; drainage works (including ground & surface water attenuation & control measures and replacement and/or refurbishment of existing discharges pipe through Craylands Gorge); pedestrian cyclist & vehicular ways, highways and public transport facilities (including new and improved links between the site & existing public highways (including Alkerden Lane, B255, A2 Watling Street & Southfleet Road), bridges & causeways, dual use & segregated facilities for public transport systems & cross site pedestrian, cyclist & vehicular routes); facilities for mooring, launching & landing water craft; & miscellaneous ancillary & associated engineering & other operations. All such development shall accord with the Application Plans & Development Parameters Schedule & the disposition of development table each as listed in condition 3. (incorporating variation of condition 3 to change finished ground level parameter plan; lineages parameter plan; land use disposition plan; development parameters schedule and disposition of development table)

at: **Eastern Quarry
Watling Street
Swanscombe**

and being **Application for the part-approval of condition 35 (Part 1 only) attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the Western part of Eastern Quarry.**

Subject to the following Informatives:-

INFORMATIVES :-

1. The application is approved in accordance with the submitted information as contained in the following approved documents:

"Henley Camland - Eastern Quarry Stage 2 Development - Land Quality and Ground Contamination Desk Study: Issue 1 - 23 September 2016. Job number 250122-01"
2. The applicant is advised that this approval does not assume approval for amendments to the Masterplan as identified in the accompanying figures of the report. A separate application for planning permission must be submitted for consideration of changes to the Masterplan.
3. The applicant is reminded of Parts 2, 3, 4 and 5 of Condition 35 which must be addressed to fully approve this condition in respect of this site.
4. In accordance with paragraphs 186 and 187 of the National Planning Policy Framework, Ebbsfleet Development Corporation, as local planning authority, has taken a positive and proactive approach to the proposed development, focusing on finding solutions:
 - The application was acceptable as submitted and no further assistance was required;
 - The application was determined within the relevant timescales

Signed: *Mark Pullin*

Dated: 20 January 2017

**Acting Chief Planning Officer
Ebbsfleet Development Corporation**

~~~~~



## **NOTES:**

This permission is confined to permission under the Town and Country Planning Acts and the Town and Country Planning (Development Management Procedure) (England) Order 2015 and does not obviate the necessity of compliance with any other enactment, bye-law, or other provision whatsoever or of obtaining from the appropriate authority or authorities any permission, consent, approval or authorisation which may be requisite.

## **APPEALS TO THE SECRETARY OF STATE**

- If you are aggrieved by the decision of your Local Planning Authority to refuse permission for the proposed development or to grant it subject to conditions, then you can appeal to the Secretary of State under Section 78 of the Town and Country Planning Act 1990.
- If this is a **householder application\*** which has been refused and you want to appeal against your Local Planning Authority's decision then you must do so within **12 weeks of the date of this notice**.
- For **all other applications**, refused or permitted, if you want to appeal against your Local Planning Authority's decision then you must do so within **6 months of the date of this notice**.
- **Appeals must be made using a form which you can obtain from the Planning Inspectorate at Temple Quay House, 2 The Square, Temple Quay, Bristol BS1 6PN; telephone: 0303 444 5000; email: [enquiries@pins.gsi.gov.uk](mailto:enquiries@pins.gsi.gov.uk) or online at [www.planningportal.gov.uk/pcs](http://www.planningportal.gov.uk/pcs).**
- The Secretary of State can allow a longer period for giving notice of an appeal, but he will not normally be prepared to use this power unless there are special circumstances which excuse the delay in giving notice of appeal.
- The Secretary of State need not consider an appeal if it seems to him that the Local Planning Authority could not have granted planning permission for the proposed development or could not have granted it without the conditions they imposed, having regard to the statutory requirements, to the provisions of any development order and to any directions given under a development order.
- In practice, the Secretary of State does not refuse to consider appeals solely because the Local Planning Authority based their decision on a direction given by him.

### **\*Householder applications**

These are:

- (a) applications for planning permission for development of an existing dwellinghouse, or development within the curtilage of such a dwellinghouse for any purpose incidental to the enjoyment of the dwellinghouse, or
- (b) an application for any consent, agreement or approval required by or under a planning permission, development order or local development order in relation to such development

but does **not** include –

- (i) an application for change of use;
- (ii) an application to change the number of dwellings in a building.

## **PURCHASE NOTICES**

- If either the Local Planning Authority or the Secretary of State for the Environment refuses permission to develop land or grants it subject to conditions, the owner may claim that he/she can neither put the land to a reasonably beneficial use in its existing state nor can he/she render the land capable of a reasonably beneficial use by the carrying out of any development which has been or would be permitted.
- In these circumstances, the owner may serve a purchase notice on the Ebbsfleet Development Corporation in whose area the land is situated. This notice will require the Corporation to purchase his interest in the land in accordance with the provisions of Part VI of the Town and Country Planning Act 1990.

### **COMPENSATION**

- In certain circumstances compensation may be claimed from the Local Planning Authority if permission is refused or granted subject to conditions by the Secretary of State on appeal or on reference of the application to him.
- These circumstances are set out in Sections 114 and related provisions of the Town and Country Planning Act 1990.

Henley Camland

**Eastern Quarry Stage 2  
development**

Land Quality and Ground  
Contamination Desk Study

Issue 1 | 23 September 2016

This report takes into account the particular  
instructions and requirements of our client.

It is not intended for and should not be relied  
upon by any third party and no responsibility  
is undertaken to any third party.

Job number 250122-01

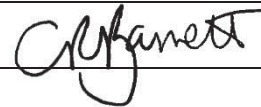
**Ove Arup & Partners Ltd**  
13 Fitzroy Street  
London  
W1T 4BQ  
United Kingdom  
[www.arup.com](http://www.arup.com)

**ARUP**



# Document Verification

# ARUP

|                       |             |                                                  |                                                                                     |                                                                                      |                                                                                       |
|-----------------------|-------------|--------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Job title</b>      |             | Eastern Quarry Stage 2 development               |                                                                                     | <b>Job number</b>                                                                    |                                                                                       |
|                       |             |                                                  |                                                                                     | 250122-01                                                                            |                                                                                       |
| <b>Document title</b> |             | Land Quality and Ground Contamination Desk Study |                                                                                     | <b>File reference</b>                                                                |                                                                                       |
|                       |             |                                                  |                                                                                     |                                                                                      |                                                                                       |
| <b>Document ref</b>   |             |                                                  |                                                                                     |                                                                                      |                                                                                       |
| <b>Revision</b>       | <b>Date</b> | <b>Filename</b>                                  | Western Cross Land Quality Desk Study Draft1.docx                                   |                                                                                      |                                                                                       |
| Draft 1               | 29 Jun 2016 | <b>Description</b>                               | First draft                                                                         |                                                                                      |                                                                                       |
|                       |             |                                                  | Prepared by                                                                         | Checked by                                                                           | Approved by                                                                           |
|                       |             | Name                                             | Amy Juden                                                                           | Adam Shelton                                                                         | Chris Barrett                                                                         |
|                       |             | Signature                                        |                                                                                     |                                                                                      |                                                                                       |
| Draft 2               | 16 Aug 2016 | <b>Filename</b>                                  | Western Cross Land Quality Desk Study Draft 2.docx                                  |                                                                                      |                                                                                       |
|                       |             | <b>Description</b>                               | Draft for comment                                                                   |                                                                                      |                                                                                       |
|                       |             |                                                  | Prepared by                                                                         | Checked by                                                                           | Approved by                                                                           |
|                       |             | Name                                             | Amy Juden                                                                           | Chris Barrett                                                                        | Paul Morrison                                                                         |
|                       |             | Signature                                        |                                                                                     |                                                                                      |                                                                                       |
| Issue 1               | 23 Sep 2016 | <b>Filename</b>                                  | Western Cross Land Quality Desk Study Issue 1.docx                                  |                                                                                      |                                                                                       |
|                       |             | <b>Description</b>                               | Issue 1 following comment by CBRE                                                   |                                                                                      |                                                                                       |
|                       |             |                                                  | Prepared by                                                                         | Checked by                                                                           | Approved by                                                                           |
|                       |             | Name                                             | Adam Shelton                                                                        | Chris Barrett                                                                        | Chris Barrett                                                                         |
|                       |             | Signature                                        |  |  |  |
|                       |             | <b>Filename</b>                                  |                                                                                     |                                                                                      |                                                                                       |
|                       |             | <b>Description</b>                               |                                                                                     |                                                                                      |                                                                                       |
|                       |             |                                                  | Prepared by                                                                         | Checked by                                                                           | Approved by                                                                           |
|                       |             | Name                                             |                                                                                     |                                                                                      |                                                                                       |
|                       |             | Signature                                        |                                                                                     |                                                                                      |                                                                                       |

**Issue Document Verification with Document**
☒

# Contents

---

|                                                         | Page      |
|---------------------------------------------------------|-----------|
| <b>1 Introduction</b>                                   | <b>3</b>  |
| 1.1 Background                                          | 3         |
| 1.2 Objectives                                          | 4         |
| 1.3 Sources of information                              | 4         |
| 1.4 Report structure                                    | 5         |
| 1.5 Limitations                                         | 6         |
| <b>2 Site location and description</b>                  | <b>7</b>  |
| 2.1 Location and surroundings                           | 7         |
| 2.2 Topography                                          | 7         |
| 2.3 Current site conditions                             | 8         |
| <b>3 Proposed development</b>                           | <b>17</b> |
| 3.1 Site uses                                           | 17        |
| 3.2 Proposed topography and earthworks                  | 17        |
| 3.3 Development stages                                  | 17        |
| 3.4 Status of assessments and planning approvals        | 18        |
| <b>4 Site history</b>                                   | <b>20</b> |
| 4.1 Overview                                            | 20        |
| 4.2 Alkerden area                                       | 20        |
| 4.3 Central lake                                        | 23        |
| 4.4 Western Areas                                       | 24        |
| 4.5 Farms                                               | 24        |
| 4.6 Surrounding area                                    | 27        |
| <b>5 Environmental setting</b>                          | <b>30</b> |
| 5.1 Regional geology                                    | 30        |
| 5.2 Ground conditions                                   | 31        |
| 5.3 Groundwater                                         | 32        |
| 5.4 Environmental consents and permitting               | 34        |
| 5.5 Sensitive sites                                     | 36        |
| <b>6 Previous investigations</b>                        | <b>37</b> |
| 6.1 On site                                             | 37        |
| 6.2 Stage 1 (Castle Hill) investigations and earthworks | 37        |
| <b>7 Conceptual model and risk assessment</b>           | <b>40</b> |
| 7.1 Potential sources of contamination                  | 40        |
| 7.2 Potential receptors                                 | 44        |

|          |                                        |           |
|----------|----------------------------------------|-----------|
| 7.3      | Potential pathways                     | 45        |
| 7.4      | Potential contaminant linkages         | 45        |
| 7.5      | Preliminary risk assessment            | 47        |
| <b>8</b> | <b>Conclusions and recommendations</b> | <b>52</b> |
| 8.1      | Conclusions                            | 52        |
| 8.2      | Recommendations                        | 54        |

## References

## Tables

|          |                                                                                              |
|----------|----------------------------------------------------------------------------------------------|
| Table 1  | Alkerden walkover evidence                                                                   |
| Table 2  | Washmill Lagoons walkover evidence.                                                          |
| Table 3  | Washing Plant walkover evidence                                                              |
| Table 4  | Lakeside walkover evidence.                                                                  |
| Table 5  | Western Area 1 walkover evidence                                                             |
| Table 6  | Western Area 2 walkover evidence.                                                            |
| Table 7  | Western Area 3 walkover evidence                                                             |
| Table 8  | The Washing Plant in 1984                                                                    |
| Table 9  | Alkerden Manor Farm in late 19 <sup>th</sup> century                                         |
| Table 10 | Alkerden Farm with chalk pit in 1970s                                                        |
| Table 11 | Western Cross Farm, West Works and the small chalk pit in the early 20 <sup>th</sup> century |
| Table 12 | Brickworks to the southwest of the site in 1909                                              |
| Table 13 | Regional geology prior to quarrying.                                                         |
| Table 14 | Historical landfills within 1km of the site                                                  |
| Table 15 | Exploratory hole locations from previous investigations on site                              |
| Table 16 | On-site potential sources of contamination and land quality issues                           |
| Table 17 | Off-site potential sources of contamination                                                  |
| Table 18 | Potential contaminant linkages                                                               |
| Table 19 | Risk classifications                                                                         |
| Table 20 | Summary of conceptual model of the development                                               |
| Table 21 | Summary of preliminary risk assessment                                                       |

## Figures

|          |                            |
|----------|----------------------------|
| Figure 1 | Site location map          |
| Figure 2 | Site layout                |
| Figure 3 | Existing topography (2016) |



Figure 4 Site walkover route and observation locations

Figure 5 Site zones

Figure 6 Outline development masterplan

Figure 7 Proposed contours

Figure 8 Indicative proposed cut and fill zones

Figure 9 1910 Geological Map

Figure 10 Approximate lowest excavated level

Figure 11 Approximate fill thickness (2016 level – lowest excavated level)

Figure 12 Groundwater source protection zones

Figure 13 Potential sources of contamination

Figure 14 Landfills and groundwater setting

Figure 15 Proposed ground investigation plan

Figure 16 Proposed stockpile audit sampling location plan

## Appendices

### Appendix A

Envirocheck Database Report and Historical Ordnance Survey Maps

### Appendix B

Walkover Photographs

### Appendix C

Fuel Spill Report

### Appendix D

Washmill Lagoons Technical Note

### Appendix E

Verification Report Drawing

### Appendix F

Contaminated land planning condition 35

### Appendix G

Planning decision notice

### Appendix H

Blue Circle Washing Plant layout plan (1984)

### Appendix I

Ground investigation methodology



## Executive Summary

This land quality and contamination desk study has been produced by Ove Arup and Partners (Arup) for Henley Camland and provides a desk based assessment of land quality and contamination issues across the western part of the Eastern Quarry masterplan development site. This report has been prepared to support the Stage 2 development project delivery and associated planning submissions, including the requirements of the masterplan consent Condition 35 Part 1.

The Stage 2 development site is considered to have a generally low potential for significant contamination. The potential for contamination increases in some areas due to previous activities on site. These areas of the site are a relatively small proportion of the development site and most soils that will be encountered during the extensive cut and fill operation to form the proposed development profile are expected to be naturally derived and uncontaminated. Fourteen specific potential source areas have been identified, most of which have a very low to low potential for contamination whereas a few have a low to moderate potential. The more significant areas include the Washing Plant and associated infrastructure and an older pre1974 landfill. A summary of the conceptual model derived for the site is below:

Summary of conceptual model of the development

| Summary conceptual model            | Potential for contamination                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| Potential for contamination         | Mostly very low over the majority of the site, ranging between low and moderate in some localised areas |
| Environmental sensitivity           | High, due to the SPZ1 and potable water borehole located on site.                                       |
| Sensitivity of proposed development | High, residential end use with domestic gardens.                                                        |

There are some land quality issues associated with certain types of the naturally occurring fills that will be reused on site, such as the potential to generate ground gases in certain conditions and low levels of leachable metals. These issues are well understood from the adjacent Stage 1 development and will be addressed in detail during the proposed investigation, assessment and development for the Stage 2 development.

An updated remediation and materials management strategy will be developed in consultation with the regulatory authorities to allow safe development of the site in accordance with the principles of the National Planning Policy Framework (NPPF) and Environmental Agency policy on protecting groundwater. The Planning consent requires submission of a desk study (with recommendations on investigation) followed by an assessment and remediation strategy. These parts of the condition have been discharged for the Stage 1 (Castle Hill) area but not yet for Stage 2.



The fourteen specific localised potential sources of contamination are surmised below:

- Those with a low to moderate potential include: the old landfill on site and the washmills, including the diesel fuel tanks and waste oil tank. A previous 20,000 litre fuel spill was known about and some remediation undertaken.
- Those with a low potential include: general Made Ground, surface stockpiles of topsoil, quarry and lagoon materials, and construction and demolition rubble;
- Those with a very low potential include: the soil recycling facility, some predefined stockpiles with very low levels of known contamination and the potential for cement kiln dust.

Arup has included the following recommendations.

- Ground investigation. This will provide up to date information across the Stage 2 area to enable design of the earthworks and foundations and investigation of the potential sources of contamination identified. This will combine general contamination and quality testing of natural soils to be used as fill materials and more detailed investigations in the areas defined as potential source areas. Testing will be both stratified random and targeted (for instance around tanks) and will include soils, groundwater, surface water (in the lake), lake sediment, lagoon materials, ground gas and hydrocarbon vapour. Leachability testing will also be undertaken.
- Materials management during earthworks. An approach in accordance with the CL:AIRE (2011) Code of Practice (CoP) would be beneficial. The system has a number of advantages including providing a clear, consistent and efficient process which enables the reuse of excavated materials on-site or their movement between sites. The approach is supported by the Environment Agency. It can reduce or prevent the requirements for environmental permits and demonstrates the sustainable reuse of materials.
- Protection of the health of construction workers and neighbours during the development works. This will be based on the outcome of investigations and assessments and measures may vary around the site.
- Earthworks remediation and verification strategy. The previous Arup Ground Contamination Strategy Report (2008) sets out a methodology for identifying and dealing with uncontaminated and contaminated soils. It will require an update. It will define the approach to earthworks, materials testing and verification for the various types of naturally occurring fill materials and those from the potentially contaminated areas. It will ensure that the soils are suitable for use and be protective of potential risks to future site users and the environment. A verification report is required following completion.
- Suitable materials for services. Much of the site is expected to be uncontaminated but some areas have a potential for contamination. If areas of contaminated Made Ground are found to be present (and are not in parts of the site subject to significant fill during earthworks) additional protective materials may be required for potable water supply.

# 1 Introduction

---

## 1.1 Background

Henley Camland is redeveloping the western part of the Eastern Quarry site, in Ebbsfleet, Kent.

The Eastern Quarry masterplan development will comprise a total of around 6,250 residential units across three planned urban villages with local and community facilities, open space and commercial areas. It extends over 260 hectares. Stage 1 of that development, comprising the first development of the three villages, Castle Hill in the east, is currently underway. The Stage 2 works will include the Alkerden, Western Cross and Washmills areas in the west of the Eastern Quarry masterplan development. It is Stage 2 that is addressed in this report.

Arup previously produced a combined geotechnical and geoenvironmental desk study report in 2002 [1] in association with the original planning application submitted by Land Securities for the Eastern Quarry masterplan development site. Arup also wrote the land contamination chapter in the Environmental Statement [4] which accompanied that planning application. Outline planning consent was originally granted for the Eastern Quarry masterplan development in 2007 and subsequently altered in 2012 and 2013, with the latest extant outline consent being that of reference DA/12/01451/EQVAR. The extant outline consent included a condition related to ground contamination, which is included in full in Appendix F. In summary it requires:

- desk study,
- ground investigation,
- risk assessment,
- remediation strategy (as required) and
- verification.

The ground investigations and assessments have been completed for the Stage 1 (Castle Hill) development site and the conditions have been discharged for that area. This is described in more detail in Section 6.

This report has been produced by Ove Arup and Partners (Arup) for Henley Camland and provides a desk based assessment of land quality and contamination issues across the western part of the Eastern Quarry masterplan development site. This report provides an update to the previous 2002 desk study for the Stage 2 development area (the site) as indicated in Figure 1. This report takes account of the subsequent investigations and increased knowledge on ground conditions. This Land Quality and Ground Contamination Desk Study is submitted pursuant to the requirements of condition 35, part 1 of DA/12/01451/EQVAR.

## 1.2 Objectives

This land quality and contamination desk study provides an assessment of the site in terms of potential contamination sources and potential risks to site users and the environment. This report provides a specific focus on contamination and the chemical quality of the land from a human health and environmental perspective. Three other reports are being produced by Arup:

- A geotechnical desk study, which draws on similar sources of information to this report, but presents an assessment from a geotechnical design perspective;
- A hydrogeological risk assessment report, currently in draft, pending consultation with the environment agency on proposed dewatering activities, the risk assessment relating to the proposed development informs parts of the risk assessment presented in this report;
- A surface water management plan, which will inform the design of the drainage and proposed lake on site.

The report reflects the changes in site conditions over the past 15 years, since the previous desk study was written. It includes evidence collected from an updated site reconnaissance visit and consults up to date information sources, providing an assessment within the modern regulatory framework. This report also takes account of the conditions at Eastern Quarry based on findings of ground investigations across the Stage 1 Castle Hill development site.

This report identifies the potential land quality hazards on site including potential sources of contamination and naturally derived land based quality issues. A conceptual site model is presented identifying the pathways by which these land quality and contamination issues could put identified human and environmental receptors at risk.

The report provides recommendations for managing and mitigating risks before and during development and identifies good practice and opportunities for the sustainable reuse, treatment or remediation of potentially contaminated land (where appropriate); the report also provides recommendations for ground investigation(s) at the site.

## 1.3 Sources of information

The following sources of information have been consulted in the production of this report:

- Landmark Envirocheck database search and historical ordnance survey maps from June 2016 (included in Appendix A);
- Arup geotechnical and geoenvironmental desk study for Eastern Quarry [1];
- Arup Environmental Statement for Eastern Quarry [4];
- Arup Eastern Quarry, Castle Hill and Weldon ground contamination strategy [6];



- Arup Eastern Quarry Castle Hill and Weldon earthworks verification report [8];
- further Arup geotechnical interpretive reports, ground gas assessments and earthworks verification reports (a full list is included in the references to this report);
- Lafarge and Blue Circle end of year quarry survey plans;
- Lafarge and Blue Circle historical aerial and panoramic photographs;
- Arup site walkover completed in July 2016 (photographs included in Appendix B);
- Google Earth Pro recent and historical aerial photography;
- Environment Agency website (accessed August 2016) [27];
- Cement plants and kilns in Britain and Ireland website (accessed August 2016) [28];
- UCAP airsoft games website (accessed August 2016) [29];
- non-compliance report on diesel fuel spill (Appendix C);
- Arup technical note on Washmill Lagoons (Appendix D);
- Blue Circle Northfleet Washing Plant rating plan (Appendix H);
- Kent River Authority map (1972); and
- Information from previous Arup site walkover visits at Eastern Quarry.

## 1.4 Report structure

The structure of this report is described below.

- Section 2 introduces the site in terms of location and current conditions, including descriptions and photographs from the site reconnaissance visit.
- Section 3 details the proposals for the site in terms of the masterplan design, the earthworks that will be required to create the development platform and summarises the regulatory process for development with respect to land quality.
- Section 4 summarises the site history using evidence from a range of available sources.
- Section 5 details the geological, hydrogeological and environmental setting of the site.
- Section 6 summarises the findings of previous investigations on the site, testing during earthworks and briefly details the ground gas and other land quality issues identified on the adjacent Stage 1 (Castle Hill) development site, and the assessments and mitigation measures required there.
- Section 7 combines the information gathered in the previous sections and presents a conceptual site model and risk assessment for land quality and ground contamination at the site.

- Section 8 presents conclusions of the assessment and various recommendations including for a preliminary phase of ground investigation, and materials management processes for future earthworks phases on the site.

## 1.5 Limitations

This report has been produced by Arup for use by Henley Camland 801 Ltd. It is not intended for, and should not be relied upon by any third party except as provided for in Arup's agreement with Henley Camland 801 Ltd.

Arup has based this report on the sources detailed within the report text and believes them to be reliable, but cannot and does not guarantee the authenticity or reliability of third party information. Notwithstanding the efforts made by the professional team in undertaking this assessment, it is possible that ground conditions other than that potentially indicated by this report may exist at the Site.

This report has been prepared based on current legislation, statutory requirements, planning policy and industry good practice prevalent at the time of writing. Any subsequent changes or new guidance may require the findings, conclusions and recommendations made in this report to be reassessed in the light of the circumstances.

This report does not present a survey or assessment of the location, condition or liabilities associated with hazardous materials in the building fabric such as (but not limited to) asbestos containing material (ACM), radiological, bacterial or lead.

## 2 Site location and description

---

### 2.1 Location and surroundings

The Eastern Quarry Stage 2 development site is located to the south of the River Thames at Ebbsfleet, Kent as illustrated in Figure 1.

The site is bounded by A296 Roman Road (off A2 trunk road Watling Street) to the south. The triangular strip of land to the south of the site (bounded by Roman Road, Watling Street and Beans Lane) has general light industrial and commercial uses (such as a road haulage company, timber merchants and fireworks stores).

The B255 trunk road and Bluewater Parkway are located west of the site. The retail buildings and associated car parking facilities and water features have been developed in a backfilled quarry referred to as Western Quarry.

The northern boundary of the site is formed by Mounts Road, Alkerden Lane, a footpath parallel to Alkerden Lane and Manor Road and a row of houses along Durrant Way. The residential towns of Greenhithe and Swanscombe are located in the north separated by Craylands Gorge. The Swanscombe Heritage Park, designated a Site of Special Scientific Interest (SSSI) and also a National Nature Reserve (NNR), is approximately 100m north of the site.

The Stage 1 (Castle Hill) development at Eastern Quarry bounds the site to the east. The development at Stage 1 is predominantly residential with parks, schools and some retail and commercial amenities. Bulk earthworks and the infrastructure development for Stage 1 have been completed and houses are being built plot by plot. Part of the Stage 1 development is a lake to the south, which bounds the site at the south-eastern corner.

A separate planning application is being submitted for a narrow strip of land to the north of the site referred to as Craylands Gorge which separates the towns of Greenhithe (northwest) and Swanscombe (northeast). The area along Craylands Gorge is approximately 100m wide by 800m long.

The site layout is shown in a recent aerial photograph from 2011 in Figure 2. The site is approximately 150 hectares. The site is centred about National Grid Reference TQ 5920 7345 with maximum dimensions of approximately 1.5km (east-west) and 1.3km (north-south).

### 2.2 Topography

Site levels have been derived from a recent topographical survey carried out in December 2015 (by others) and are shown in Figure 3.

The site levels vary from over +50mOD at the southern edge of the site and in the middle of the chalk spine near the western edge of the lake, to +4.3 to +5.3 which is the level of the water in the lake. A bathymetric survey has not been undertaken, so ground levels beneath the lake are not certain, however chalk excavation levels are known and are discussed further in the geotechnical desk study site history section. There are steep chalk cliffs around the site including



along the southern and western boundary of the site and around the eastern and southern edges of the lake, where chalk spines remain.

More detailed topographical descriptions of the different zones of the site are discussed in the following sections.

## 2.3 Current site conditions

### 2.3.1 Overview

Figure 2 is a recent (2011) aerial photograph of the site, showing the site to be largely unoccupied and approximately one-third of the site is covered by a lake. Current site uses comprise:

- a soil and aggregate recycling facility in the south of the former washing plant area;
- Alkerden and Western Cross Farms on the northern site boundary; and,
- many parts of the site are being used for storage of soil stockpiles sourced from the Stage 1 (Castle Hill) development site.

The landscaped areas are well established with some mature trees, mainly located adjacent to the access roads, field boundaries and along Craylands Gorge.

A site reconnaissance was completed on 14th July 2016. The route taken during the site walkover is included as Figure 4. The numbers (1 to 12) shown on Figure 4 relate to the photograph numbers given in Tables 1 to 7 below. Access was available for the former quarry area only. Access was not available for the existing Western Cross and Alkerden farms at the top of the chalk cliffs in the north of the site. Given time constraints and the size of the site only certain areas were subject to a walkover, and many parts of the site were viewed from a vehicle or from a distance from vantage points.

The site has been split into zones, based on the current and past uses, and the proposed earthworks (cut or fill) in each area. The zones are illustrated on Figure 5. Descriptions of the zones based on the available aerial photographs and the evidence gathered during the site reconnaissance are given below. The lake has been excluded as no bathymetric surveying has been undertaken. A selection of photographs from the site reconnaissance are included in Appendix B and referenced below.

### 2.3.2 Alkerden Farm

Access to Alkerden Farm was not available during the walkover. A description has been determined from recent aerial photographs and maps. The farm is located north of the main quarry (and was not subject to quarrying activities), and south of Alkerden Lane.

Alkerden Farm consists of three fields, an area of wood and scrub, the main farm house set within a garden, and a farmyard with barns and outbuildings. Access to the farm is by a driveway from Alkerden Lane in the north which bisects the two

main arable fields in the north. The farm house and farm yard are located to the east of the drive, with the wooded area to the west, and a paddock (for horses) behind the farm yard to the south.

There is some evidence of old farm or other vehicles, equipment and detritus within the wooded scrub area from aerial photographs.

### 2.3.3 Alkerden Farm Quarry

The Alkerden Farm Quarry area was included in the site walkover. The walkover route is illustrated in Figure 4. In summary at Alkerden the route started in the southwest corner at the western end of the washmill lagoons and then went approximately in a loop clockwise around the Alkerden area. Specific localities visited, observations made and potential for contamination or land quality issues is discussed in the table below, with a photograph from each location for illustration purposes.

In general the Alkerden area is part of the former quarry where reworked overburden has been placed. In general levels slope down from north to south. The northern half of Alkerden is fairly level at around +25m OD, a similar level to Alkerden Farm. The southern half slopes down to the washmill's lagoons, shallowly at first, and steeply in the far south down to +10m OD. The Alkerden area contains many stockpiles at the surface of varying size and comprising soil, stones and rubble. Further details relating to some of the stockpiles are given below.

Table 1 Alkerden walkover evidence

| No. | Photograph and description of observations                                                                                                             |  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1   |                                                                    |  |
|     | <p>Stockpiles of excess overburden material sourced from Stage 1 (Castle Hill) area. White shell fragments are observable within overburden soils.</p> |  |



| No. | Photograph and description of observations                                                                                                                                                                   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   |                                                                                                                            |
|     | <p>Stockpiles of construction or demolition rubble of unknown origin. Predominantly concrete, with some flint, brick, tarmac and minor plastic and metal. Heavily vegetated.</p>                             |
| 3   |                                                                                                                           |
|     | <p>Alternating orange stained stockpiles with no vegetation and stockpiles with some vegetation and no orange staining. Stockpiles of an unknown origin comprising concrete, flint and occasional metal.</p> |

### 2.3.4 Washmill Lagoons

The washmill lagoons are located to the south of the Alkerden area, adjacent to and northeast of the washmills plant. These lagoons were used as settlement lagoons for the chalk slurry quarried from the site and manufactured in the washmills. The lagoons were observed from a distance, from the top of the steep slope in Alkerden.

There are three main lagoons, which are now fairly heavily vegetated. The lagoons were formed by cutting into the natural chalk, and are currently flooded with water. Stockpiles of twisted metal bars, wood and soils were present around the lagoons and to the south.



Table 2 Washmill Lagoons walkover evidence.

| No. | Photograph and description of observations                                                                                                      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 4   |                                                               |
|     | <p>Photo taken from towards the south of Alkerden, from top of steep slope. Washmill lagoons in the foreground and Castle Hill lake behind.</p> |

### 2.3.5 Washing Plant

The washing plant is located in the south of the site. The washmills were where the raw quarried chalk was milled in large cylindrical tanks into a fine slurry prior to being transported off site by pipe line to the nearby Northfleet cement works. The washing process was achieved by the addition of a large amount of water and vigorous stirring.

The plant is no longer in use. The washing tanks, conveyors and many of the buildings have been demolished, though some warehouse structures, derelict offices and fuel tanks remain on site. Key localities within the Washing Plant were subject to the walkover as detailed in Table 3 below.

Table 3 Washing Plant walkover evidence

| No. | Photograph and description of observations                                           |
|-----|--------------------------------------------------------------------------------------|
| 5   |  |

| No. | Photograph and description of observations                                                                                                                                                                                                                                                                                             |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <p>A soil and aggregate recycling facility is located in the far south of the Washing Plant on the highest terrace. Activities are undertaken on a concrete surface, though stockpiles are not sheeted or bunded.</p>                                                                                                                  |
| 6   |  <p>Derelict office block on a terrace level above the main Washing Plant area. There was no evidence of any fuel storage or generators in this area. There was some unidentified insulation lagging on a large pipe located east of the office.</p> |
| 7   |                                                                                                                                                                                                                                                    |



| No. | Photograph and description of observations                                                                                                                                                                                                                                                                                                |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                                                                                                                                                                                         |
|     | <p>Five “gas oil” diesel tanks are located in the northern part of the washing plant area, with a vehicle refuelling point to the northeast of the tanks. The concrete bund around the tanks appeared to be substantial and in good repair, however black staining and orange sludge was observed in and around the refuelling point.</p> |

### 2.3.6 Lakeside

There is currently a large lake present in the centre of the site within the Western Cross area of the site. The water level in the lake is around +5m OD. Steep slopes are present to the north and to the south of the lake in the Lakeside zone of the site.

In the northeast is a steep grassed slope of reworked overburden covered with young trees and bushes, the top of which is at a similar level to Alkerden Farm, which it backs onto. In the south are remnant chalk cliffs at the edge of the water.

Table 4 Lakeside walkover evidence.

| No. | Photograph and description                                                           |
|-----|--------------------------------------------------------------------------------------|
| 8   |  |
|     | <p>View over the lake from the top of the lakeside slope in the northeast.</p>       |



| No. | Photograph and description                                                           |
|-----|--------------------------------------------------------------------------------------|
| 9   |    |
|     | Chalk cliffs around the southern lakeside. View looking east, towards washing plant. |

### 2.3.7 Western areas

The western area, comprises all of the former quarry that is to the west of the lake. It is split into:

- Western Area 1, a low lying area to the northwest of the lake.
- Western Area 2, in the centre comprising a relatively level plateaux of reworked overburden.
- Western Area 3, in the southwest of the site comprising a remnant chalk spine, and fairly uneven topography.

#### Western Area 1

In the northeast, Western Area 1 is a low lying highly overgrown area with mature trees and shrubs that is currently partially flooded, due to the rising groundwater levels in this area.

Table 5 Western Area 1 walkover evidence

| No. | Photograph and description                                                           |
|-----|--------------------------------------------------------------------------------------|
| 10  |  |
|     | Flooded and heavily vegetated northwest lakeside area.                               |

## Western Area 2

Along the western site boundary is a chalk cliff with the B255 at the top that marks the western edge of the quarry. A track runs in a cutting along the base of the cliff and to the east is a steep slope up from the track to the western area of deposited overburden soils. This western area is fairly flat on top, with a gentle slope down to the north and east, there are steeper slopes around the north, east and southeastern boundaries down to the lake and western areas 1 and 3.

The area is well vegetated predominantly with grasses, and there are scattered trees and shrubs as illustrated in Table 6 below.

Table 6 Western Area 2 walkover evidence.

| No. | Photograph and description                                                                                                                                                                                                                                                                                                                                        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11  |  <p>View across Western Area 2 to the east. The Lakeside slope and chalk spine on the eastern shore of the lake can be seen in the distance. This part of Western Area 2 was observed to comprise open level ground, with high grass and scattered young trees and shrubs.</p> |

## West Area 3

The topography in this area is highly uneven and it is likely that a chalk spine remains in situ across this area from west to east. Stockpiles of soil and crushed flints were also observed in this southern area. It is thought likely that the flint chippings observed in this area are a by-product of the chalk washing process.

Table 7 Western Area 3 walkover evidence

| No. | Photograph and description                                                                                                                                                                                                               |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12  |  <p>Stockpiles of crushed flints in the southwest corner of the lakeside. View from near the top of the chalk spine in this area, looking north.</p> |

In the far south of the site towards one end of the chalk spine there is a temporary tent structure comprising the “base” for the imitation combat games (called “airsoft” games that are played using plastic BB pellets) that are operated out of the site on evenings and weekends [29]. There is also an old aircraft located in the southwest corner of the site, placed here as part of the airsoft games.

### 2.3.8 Western Cross Farm

Access was not available for Western Cross Farm during the walkover. The farm is located at the top of the chalk cliffs in the northwestern corner of the site, and occupies an area that has not been previously quarried. Evidence from aerial photographs has been used to write this description.

The farm comprises a number of brick and timber barns and sheds surrounding a central yard. There is a small paddock to the west of the buildings, beyond which is woodland. A steep chalk cliff lies around the farm and to the south.



## 3 Proposed development

---

### 3.1 Site uses

The proposed Stage 2 development is a residential led scheme. The masterplan for development sets out the general road layout and approximate land usage areas, as shown in Figure 6. The proposed plan in Figure 6 is provided for illustrative purposes which may be subject to change. The Stage 2 development will comprise two urban villages, Western Cross and Alkerden. The villages will be separated by a central park running through the site from north to south, linking Craylands Gorge in the north to the edge of the Castle Hill lake in the southeast of site. The villages will be predominantly residential and include schools, commercial and retail areas. Residential units will be a mixture of low to high density units and there will be schools in both villages.

There are various public open space proposed across the site including local parks and village greens. There is a lake planned along the southern boundary of the village. The scheme also includes commercial areas in the west and along part of the central road.

To the west of the Western Cross village is an area of mixed use retail, leisure and employment development that includes some high density residential.

### 3.2 Proposed topography and earthworks

Arup was provided with the proposed development contours in July 2016. These proposed levels are subject to change, though they are discussed here and are illustrated on Figure 7.

The proposed development platform is in two halves, with the existing chalk cliff remaining through the centre of the site, in the park area, dividing the two villages. Proposed development platform levels across the two villages fall from north to south, similar to the Stage 1 (Castle Hill) development. The proposed slope across Alkerden is the steeper of the two, falling from around +39mOD at Alkderden farm to +8mOD at the Castle Hill lake in the southeast. At Western Cross the fall will be less significant, from around +11mOD at the base of the slope in the north to around +5m OD at the south western lake. Between the two lakes in the south of the site in the washing plant area the terraces cut into the chalk are proposed to remain, with only minor cut and fill here.

An indicative pixelated cut and fill model (based upon the proposed development platform details discussed above) has been produced by Arup and is included as Figure 8.

### 3.3 Development stages

The development works at Western Cross will start with eight months of temporary dewatering in order to enable earthworks in the lowest parts of the site. An assessment of the dewatering activities is included in the hydrogeological risk

assessment, which is currently in draft pending consultation with the Environment Agency.

After dewatering large scale earthworks will be completed to form a suitable development platform. Currently there is a large lake in the centre of the site and site levels are highly uneven with cliffs around the site edges and steep slopes in many places. It may also be necessary to undertake some geotechnical remedial works for slopes, cliffs or the development platform itself in order to provide a safe, stable and competent development platform. An approximate cut and fill model for the site is provided in Figure 8.

It is likely that the site will be divided into land parcels for development, as has been the case for Stage 1 (Castle Hill). Henley Camland is acting as developer for the site which will comprise two urban villages, Alkerden village in the east adjacent to Stage 1 (Castle Hill) and the larger Western Cross village in the west.

### 3.4 Status of assessments and planning approvals

The outline planning permission for the Eastern Quarry urban village development included a contaminated land condition split into a number of parts. This required desk study, ground investigation, remediation strategy and verification reporting with respect to contamination. Land quality has remained a consideration throughout the development of Stage 1.

The original Arup Desk Study for the Eastern Quarry Site [1] included a contaminated land assessment. It was concluded that the risk of ground contamination at the site was considered to be low. A contaminated land chapter was included within the Environmental Statement for the development [4]. This report determined that it was unlikely that significant ground or groundwater contamination was present at the site. It was also stated that the development of the site was likely to have a negligible or minor beneficial effect on land quality at the site, due to the potential for removal or remediation of any contamination, if identified.

Some ground contamination sampling and testing was completed during the pre-earthworks ground investigations undertaken predominantly in the Stage 1 (Castle Hill) development site from 2005 to 2006. Some ground gas monitoring was included in order to determine if migration of ground gases was occurring from the landfills located adjacent to the northeast of Stage 1 (Castle Hill). The findings were reported in the Arup Geotechnical Interpretive Report [5]. This report was submitted to the planning authority.

The contamination assessment confirmed the desk based assessment, that there was a low risk of contamination from soil and groundwater. However, some slightly elevated naturally occurring metals were recorded in the quarry backfill. Some elevated concentrations of carbon dioxide were detected in standpipes and as such further gas monitoring was recommended.

A ground contamination strategy report was written for the Eastern Quarry Castle Hill and Weldon (Stage 1) site in February 2008 [6]. The report included some recommendations for the wider Eastern Quarry masterplan development site, but

was more specific in the ground contamination strategy to be completed during earthworks for Stage 1 (Castle Hill). It was submitted to the planning authority and served to discharge parts 1, 2 and 3 of the contaminated land condition 35 (Appendix F). The relevant decision notice is included as Appendix G. The only outstanding planning condition for Stage 1 relates to verification, which is being discharged on a development parcel basis.

Within the recommendations for the wider Eastern Quarry masterplan development the ground contamination strategy report set out the following elements to be completed prior to development:

- Earthworks testing watching brief and assessment. To ensure that soils are suitable for use, and that any potentially contaminated soils are segregated and tested.
- Targeted ground investigation at the Washmills. Due to the nature of the Washing Plant as a “brownfield” site, the Strategy [6] determined that it should be subject to more detailed site investigation, and remediation strategy.
- Gas monitoring assessment, was identified as being required based on the findings of the GIR [5]. Further details on the gas regime and the works undertaken at Stage 1 (Castle Hill) are given in Section 6.
- Verification testing strategy for major landforming earthworks and subsequent phased development parcel earthworks; including testing of all soils identified as potentially contaminated, and soils sourced from the lagoon fills.

Further details on the strategy for materials testing and management are given in the recommendations section of this report.



## 4 Site history

---

### 4.1 Overview

The site history is also described in the accompanying Arup geotechnical desk study. This section produces all the information relevant for the land quality and ground contamination assessment of the site. The site history is generally described in terms of the site zones illustrated in Figure 5, and a general overview is given below.

Prior to development as a chalk quarry the site was occupied by woodland and farmland. The earliest historical Ordnance Survey mapping for the site shows evidence of older mineral workings across the site area variously for clay (bricks) and sands. Small chalk pits were also present in the northwest of the site in the early 20<sup>th</sup> century prior to the main quarrying works.

The main chalk quarry operation commenced in the north of the site via a tunnel through from Craylands Gorge in 1934 and advanced south across the Western Cross area, reaching the southern site boundary by 1967. A washing plant was developed in the southeast of the site in the late 1960s. The quarry developed to the west and more significantly to the east (Alkerden) in the 1970s and 1980s. The main chalk extraction works moved mostly off-site to Cherry Orchard Quarry in the late 1980s and 1990s, during which time the backfilled Alkerden Farm Quarry area was used as agricultural land. The most recent chalk workings at Eastern Quarry in the 2000s occurred across Western Cross Quarry.

In association with the quarrying, much of the site has been backfilled with stripped overburden and residual materials from chalk crushing and washing processes. These materials have been placed fairly sporadically since the mid 1930s in the Western Cross Farm Quarry. Backfilling in Alkerden in the 1970s and early 1980s was more systematic progressing from west to east. Re-profiling earthworks across Alkerden, West Area 2 and the area southeast of the Washmill Lagoons have been undertaken since 2006.

Alkerden Farm, Western Cross Farm and thin strips of land around the north, west and south site boundaries are the only areas not to have been subject to the main quarrying activities.

### 4.2 Alkerden area

The Alkerden area is sub-divided into the following zones (from north to south): Alkerden Farm Quarry, Washmill Lagoons and Washing Plant. All the site zones are illustrated on Figure 5.

Prior to quarrying the Alkerden area consisted of open countryside, which was a mixture of farmland, an orchard in the north and woods within Swanscombe Park. Clay pits were excavated across Swanscombe Park in the early 20<sup>th</sup> century, and one was located such that it extended into the southeast part of the Alkerden area (southeast of the lagoons).

Chalk quarrying started in the Washing Plant area of Alkerden in the 1950s as an extension of the Western Cross Quarry to the northwest. The chalk was not exhausted in the Washing plant area, and the plant was constructed in the late 1960s, allowing large scale quarrying to the north in the main Alkerden area in the 1970s. Backfilling with overburden was completed alongside quarrying, which was completed in 1982. The area was unchanged until recent re-profiling earthworks occurring over Alkerden Quarry in 2006/7 except for a small area south of the lagoons. South of the lagoons further excavations occurred as part of the Cherry Orchard Quarry in the 1980s, 1990s and early 2000s and re-profiling earthworks were completed in 2008/9.

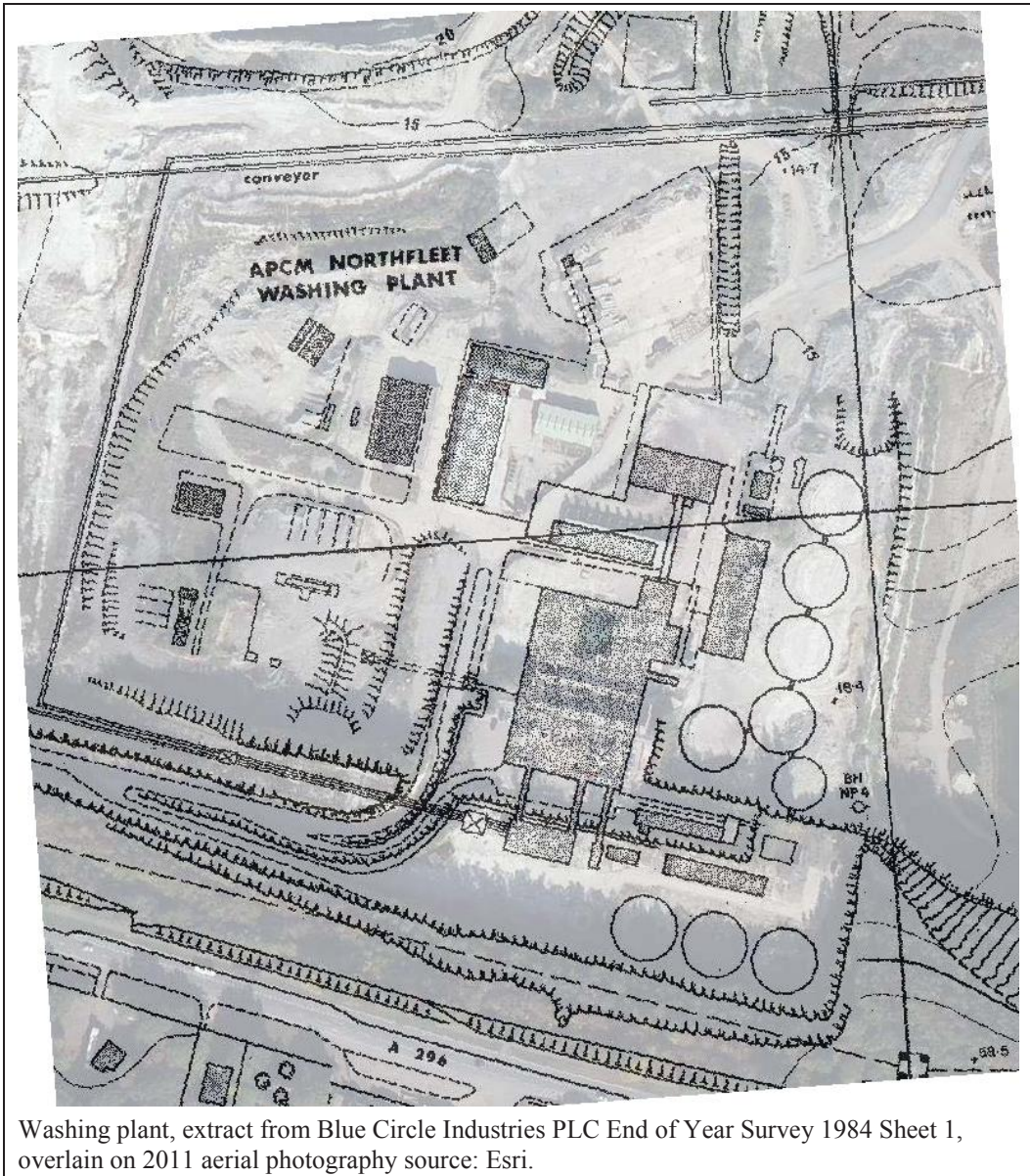
The deepest chalk excavation in Alkerden was at the Alkerden Farm Quarry and Washmill Lagoons where quarry cells were dewatered and excavated to a lowest level of -6.7mOD. The cells in the Alkerden Farm Quarry were backfilled with overburden. The Washmills lagoons are the southernmost former quarry cells that were excavated in the 1970s and were then used as settlement lagoons to enable the reuse of water in the Washmills. Further details on the history of the Washmills Lagoons is given in the Arup Technical Note included as Appendix D.

Further details on the sequence and levels of quarry excavation in the Alkerden Farm Quarry and Washmill Lagoons zones is given in the accompanying geotechnical desk study. Further details relevant to the land quality and contamination assessment regarding the development history of the Washing Plant are given below.

#### 4.2.1 Washing Plant

The Washing Plant was constructed over an area of previous quarry excavation. The area was excavated between 1955 and 1967. Aerial photos show that the plant was built between 1967 and 1970. The compound appears to have remained largely unchanged through the years. The row of five diesel fuel tanks observed during the walkover are first clearly shown on the Lafarge Quarry survey plan from 1984. It is possible that they were present before this time, or that other fuel tanks have been located within the washing plant at different locations.

Table 8 The Washing Plant in 1984



A labelled layout plan of the Washing Plant from 1984 by Blue Circle has been provided and is included in Appendix H. Some of the main features marked on the plan are detailed below:

- the three tanks in the southeast are clay tanks;
- the six tanks in the east are slurry tanks, with the slurry pumphouse alongside to the west;
- the largest building on site is the mill house,
- chalk is fed into the mill house from a hopper to the south, and conveyor leading in from the west;
- a flint conveyor takes flint from the mill house to the storage area to the west, which also has flint storage bins and flint washing sumps;



- there is a loam and oxide store in the northeast which feeds into the mill house from the north;
- the buildings and compounds to the north of the mill house and flint yard house ancillary stores and workshops;
- the gas oil tanks are shown to be 20,000l capacity and a waste oil tank is located directly to the west; and
- a large sub-station with transformer bays is shown directly north of the mill house.

At a washmills chalk is mixed and crushed and with the addition of large amounts of water forms a slurry [28]. The slurry was stored in the tanks in the west of the Washing Plant and then subsequently pumped to the cement works located 3km off-site on the Medway. The chalk excavated from the quarry contained flints which would be useful in the washmills to help break down the chalk during the mixing, but would then settle to the bottom and would be removed as a by-product of the process. No cement kilns were present on site, as the chalk raw materials were transported to the Northfleet cement works located 3.5km to the north [28].

A building located near the south of the site that was visited during the walkover was observed to have been previously used as an office serving the washing plant and quarry. Since the cessation of quarrying operations in 2008, the large slurry and clay tanks, the pumphouse, loam and oxide store and the main washmill building has been demolished. A few structures remain on site including the substation building, diesel storage tanks, and storage warehouses in the north. The diesel tanks were observed during the walkover and have not been decommissioned.

The southernmost terrace is currently being used as a soil recycling centre.

### 4.3 Central lake

The central lake area is located at the former Western Cross Farm Quarry. This is where quarrying for the main Eastern Quarry started from a tunnel entry point through from Craylands Gorge in 1934 [1]. Prior to quarrying the area was occupied by fields and woodland.

The area was generally excavated without dewatering to a level of around +4mOD to +5mOD throughout. Further excavation was carried out to maximum levels of -8mOD in 2005 to 2007. The overburden materials were placed on the sides and over previously placed overburden materials as the quarry progressed towards the south. The northeastern lakeside comprises some of the oldest overburden backfill on the site. The southeastern lake side and the northeast half of the lake have not been subject to significant back filling and the southwest of the lake has less than 10m of overburden fill at the base.

The central lake area is sub-divided into the Western Cross Lake zone and the Lakeside zone (see Figure 5) which spans from the northeast to the southeast. Further details for the sequence and levels of quarry excavation for the Western

Cross Lake and Lakeside zones are given in the accompanying geotechnical desk study.

## 4.4 Western Areas

The Western Area covers land to the west of Western Cross Lake and is subdivided into areas 1, 2 and 3 from north to south (Figure 5).

Western areas 2 and 3 were the first to be historically excavated to around +4mOD without dewatering. Some limited areas were excavated to much deeper (unrecorded) levels, probably using general quarry dewatering.

Excavation in Western Area 1 was later, starting in 1972 to 1981. The area was quarried to +3mOD to +5mOD between 1980 and 1983. A chalk spine was left on its eastern side to support the spoil ridge placed against it in Western Cross Lake. It was remarked that the chalk in Western Area 1 was disappointing and excavation was abandoned [1]. The area has not been backfilled and remained largely untouched to 2003. In 2004 a local excavation was dug in the south-eastern corner which became flooded. This is known as the Piano Lake due to its shape.

In the early 2000s, further excavations were carried out in western areas 2 and 3. Area 3 was first excavated to around -8mOD in 2002, then Area 2 was excavated to approximately -7mOD in 2004. A significant amount of stockpiled materials was placed by 2006, forming the present western plateaux area up to a level of +18mOD to +27mOD.

Further details for the sequence and levels of quarry excavation for the West Area 1, 2 and 3 zones are given in the accompanying geotechnical desk study (section 3.5 and executive summary Figures 5 and 6).

## 4.5 Farms

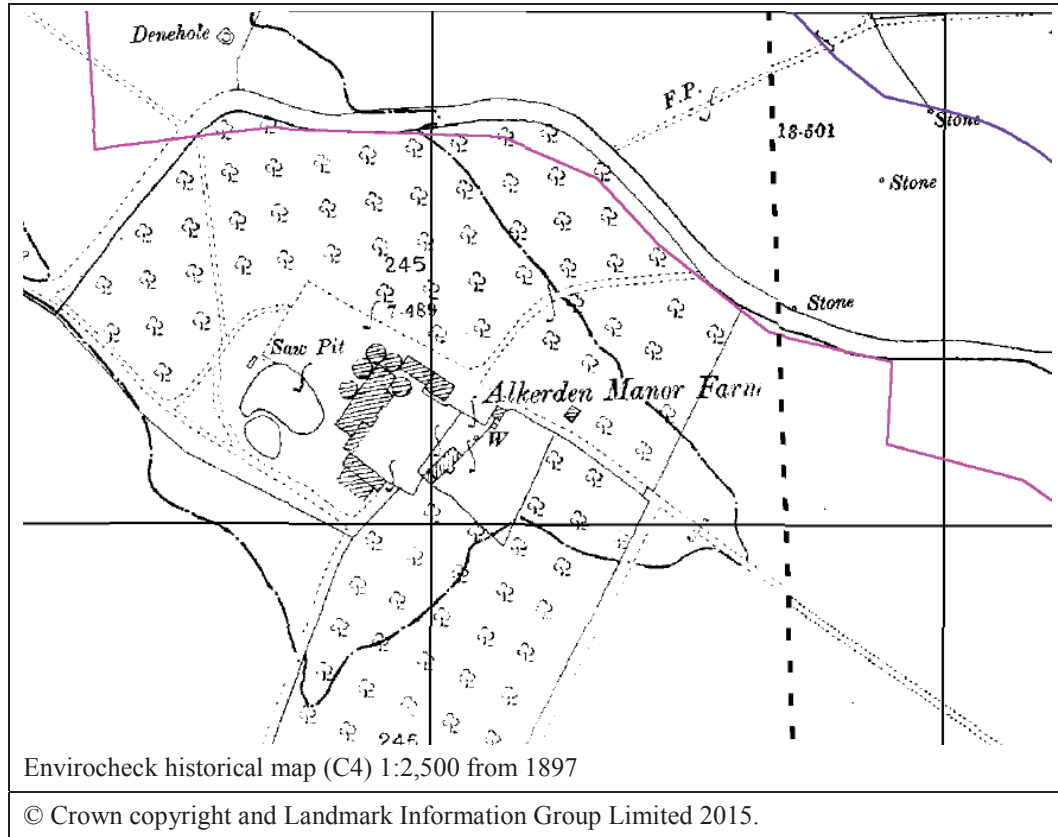
The two farms in the north of the site are the only parts of the site that were not part of the Eastern Quarry excavations, however, land on or near to both farms has been subject to small scale pitting and quarrying, as discussed below. None of these past chalk pits are shown on modern maps and therefore have likely been backfilled with unknown materials.

### 4.5.1 Alkerden Farm

In the late 19<sup>th</sup> century Alkerden Manor Farm comprised woodland or orchards across the northwest half, and an open field in the southeast. The main farm yard was located on the western side of the track opposite where the present day farm yard is. Hop kilns (circular buildings) were present and a saw pit (shown on the 1897 map) was located to the west of the farm yard. A hop kiln is a building used for drying hops which housed a furnace with slatted floors for drying the hops. There is the potential for contamination from the fuel used for burning. A saw pit is a pit over which lumber is positioned to be sawed with a long two handled saw, there is the potential for sawdust and wood chippings in the pit. The original

alignment of Alkerden Lane cut across the current farm area in the northwest. There was also previously a road along the present day field boundary in the southeast.

Table 9 Alkerden Manor Farm in late 19<sup>th</sup> century

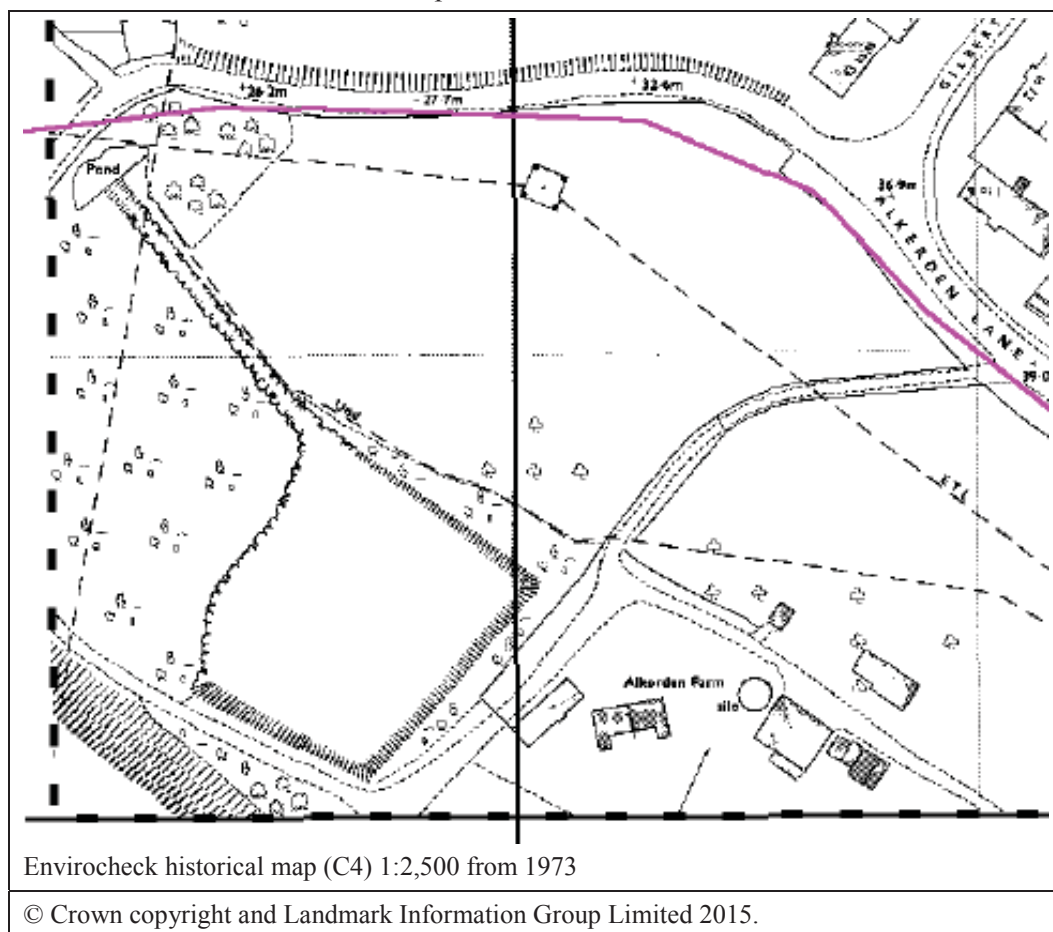


By 1938 there was less woodland at the farm with the areas directly northwest and southeast of the farm yard no longer wooded. The field in the far southeast beyond the road was shown to be allotment gardens at this time.

The main farmhouse was developed prior to 1953 and by this time the saw pit is no longer shown. It was in the 1970s that the farm yard was redeveloped to the southeast of the access track, in the present location, and the previous farm yard was excavated to form a square pit across the previous farm buildings and saw pit area. Aerial photographs indicate that this area was then a pond during the late 90s and early 2000s.



Table 10 Alkerden Farm with chalk pit in 1970s

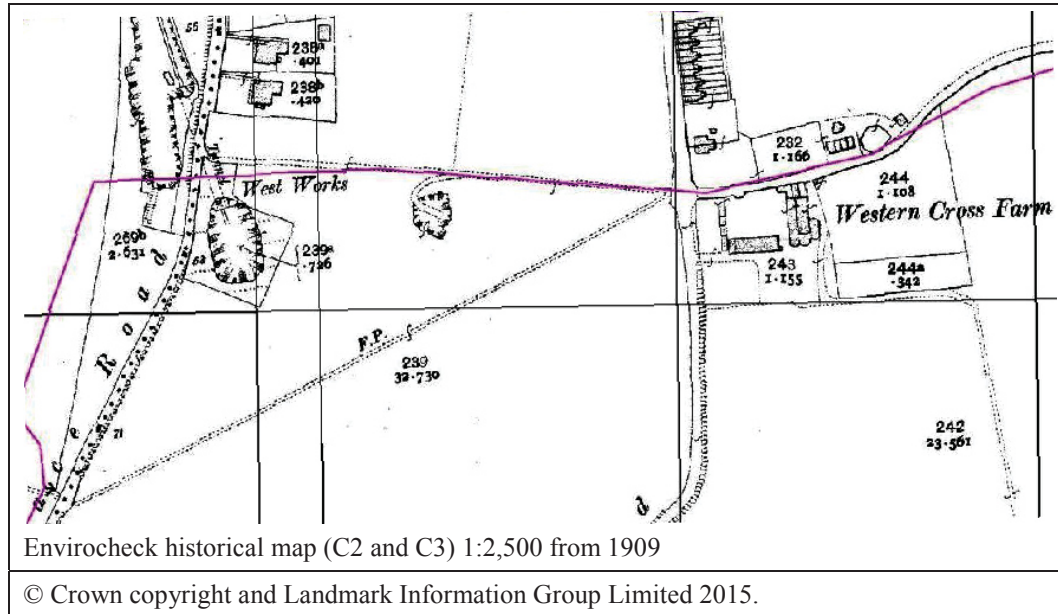


#### 4.5.2 Western Cross Farm

The layout of the buildings at Western Cross Farm during the late 19<sup>th</sup> century recorded in the earliest available OS historical maps was very similar to the present day, there have only been minor changes in the building layout over the years. A road was previously present adjacent and to the west of the farm buildings heading south from Alkerden Lane, this road is later truncated by the excavation of Eastern Quarry to the south. Cobham Terrace Road is shown running along the western site boundary, there is still a track in this location, which is the remains of the old road prior to the development of the new B255 in the late 1990s to serve Bluewater shopping centre.

The map from 1897 shows a very small chalk pit present west of Western Cross farm on the northern site boundary. By 1909 another chalk pit labelled “West Works” is shown to be present in the northwestern corner of the site, connected via a tunnel and tramway to a wharf on the Thames to the north. By 1938 the first chalk pit has been filled in (is no longer shown) and a pumping station is marked in the northwest corner of the site over the road from West Works (water abstraction Point E, further details in Section 5.3.3).

Table 11 Western Cross Farm, West Works and the small chalk pit in the early 20<sup>th</sup> century



By the 1950s the chalk pit in the northwest is marked as an “Old Chalk Quarry” and is shown to be overgrown. Also by 1950, the tunnel is shown as disused and allotment gardens are indicated to the north. By 1963 the allotments are no longer marked.

By 1984 the disused chalk pit in the northwest is no longer marked, and may have been filled.

## 4.6 Surrounding area

### 4.6.1 North

Land to the north of the site is occupied by the villages of Swanscombe, Knockhall and Greenhithe. These villages have been present since before the 1860s and have grown during the 20th century with the development of residential areas of low rise terraced housing down towards the site. Between Knockhall and Greenhithe is Craylands Gorge, part of the site, which is in an area that has been subject to chalk quarrying since the early 20th century. Most of the areas of past mineral extraction are now open land. Swanscombe Heritage Park is located 30m north of the site which is in the area of a past gravel extraction. The Saxon Developments housing development (Johnsons Way and Pilgrim View) was constructed in the late 1980s over the site of a former chalk quarry adjacent to the north of the site.

### 4.6.2 South

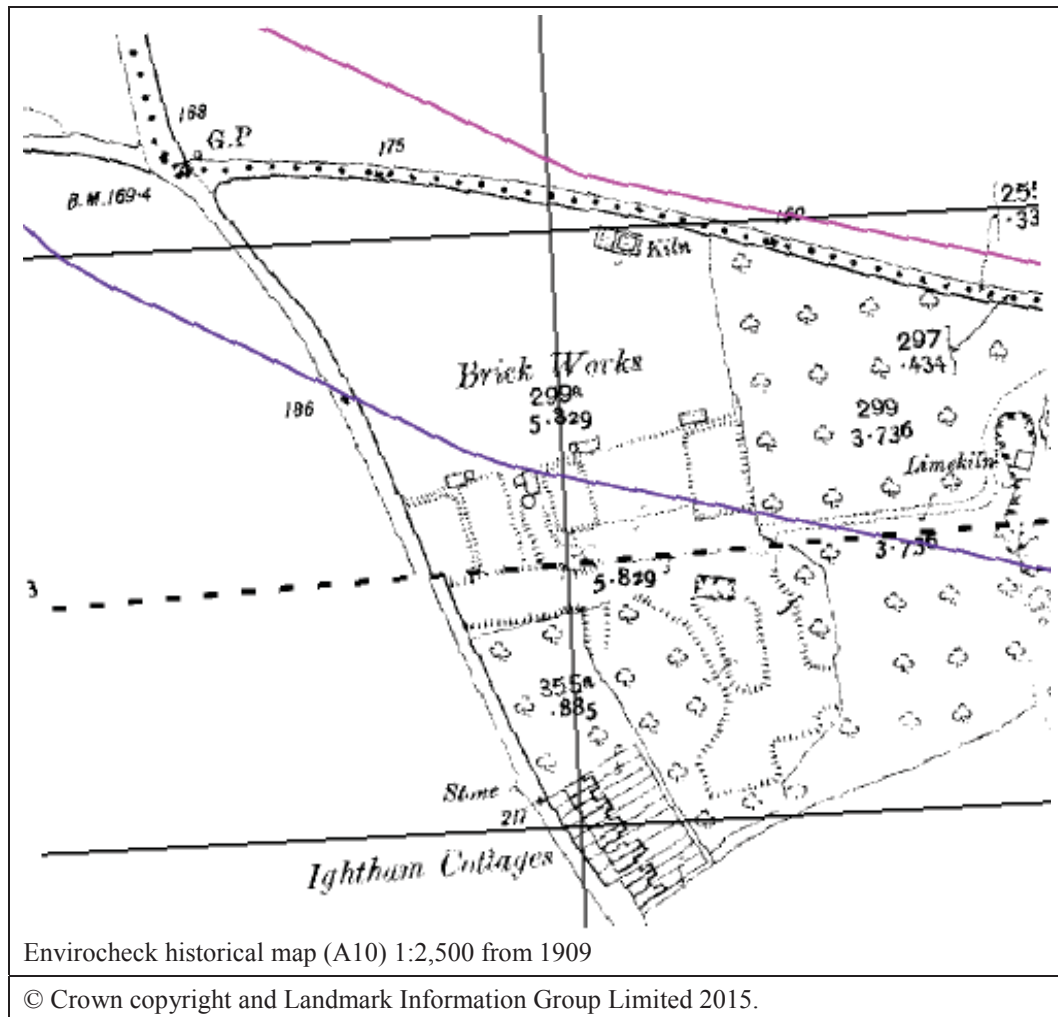
Land south of the site, has generally maintained it's rural character since the late 19th century to present day, with just the notable growth of the village of Bean, and the development of the new A2 trunk road to the south of the old Roman Road at the site boundary.

A small chalk pit, with lime kilns was present adjacent to the south of the site in the early 20<sup>th</sup> century.

A brick works was developed immediately southwest of the site in the early 1900s, which ceased operation in the 1960s. Brickfield Nurseries was developed directly to the east of the former Brickworks. The area is currently occupied by scrubland and parking, with the former nursery used for container storage.

The brickworks and small chalk pit are marked on Figure 13. Further detail is shown in Table 12 below.

Table 12 Brickworks to the southwest of the site in 1909



Land between the A2 and the Roman road within 100m of the site was previously developed as Watling Street Nurseries in the early 1970s, and is now occupied by a road haulage yard.

#### 4.6.3 East

Land to the east of the site is the Stage 1 (Castle Hill) development site. It was also subject to excavation as part of Eastern Quarry. The Stage 1 area was excavated as part of Alkerden Farm Quarry and Cherry Orchard Quarry, chalk extraction here was primary completed in the 1970s, 1980s and 1990s, with the



final area of extraction being in the south at Cherry Orchard Quarry. Overburden soils were placed systematically across the Alkerden Quarry in the north from west to east, though were not compacted during placement.

The Stage 1 (Castle Hill) area has been subject to various phases of earthworks since the early 2000s in order to form the development platform. The first main phase of earthworks involved re-profiling, comprising cutting from the north and placing reworked overburden in the south. The earthworks also included geotechnical remediation by dredging and subsequently filling some former lagoons.

The Stage 1 (Castle Hill) development site is to be redeveloped with primarily residential properties, with a school, and some commercial and retail areas near the centre. A man-made lake has been created across the south of Stage 1. The lake is lined and is linked in to a sealed drainage system for the development. The first residential properties to be completed in the northeast of the site are now occupied.

#### 4.6.4 West

Land to the west of the site currently occupied by Bluewater Shopping Centre was previously the site of Western Quarry. This chalk quarry was first worked in the 1930s around the same time as Eastern Quarry, and was also operated by Blue Circle Industries and Lafarge. Quarrying continued until the late 1980s. The site was developed by Lend Lease, and construction was completed between 1996 and 1999.

## 5 Environmental setting

### 5.1 Regional geology

The Swanscombe area is located in the geological region of the London Basin and Thames Valley. The local geology is that of Upper Cretaceous (Chalk) overlain by Palaeogene deposits (Thanet Sand, Lambeth Group and London Clay) and drift deposits (Head Deposits and undifferentiated Quaternary deposits).

The 1910 geological map (Figure 9) shows the geology of the site prior to quarrying. It indicates that the site comprised predominantly Lambeth Group (formerly Woolwich and Reading Beds) and Thanet Sand above Upper Chalk. It also indicates that there were isolated areas of London Clay, Harwich Formation (formerly Blackheath Beds) and Head Deposits (formerly Coombe Deposits). The site has been a quarry from the 1930s to 2008, and Chalk has been extensively quarried from the majority of the site. The overburden materials above the Chalk were removed to enable opencast quarrying and were subsequently placed as backfill materials. The soils on site therefore predominantly comprises reworked natural soils sourced from the overburden of Thanet Sands and Lambeth Group, with minor London Clay.

Table 13 Regional geology prior to quarrying.

| Group / Formation                                         |                                        | Typical descriptions                                                                                                                                                                               |
|-----------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Head Deposits – isolated areas (formerly Coombe Deposits) |                                        | Sand and gravel, locally with lenses of silt, clay or peat and organic material depending on upslope source and distance from source.                                                              |
| London Clay Formation – isolated areas                    |                                        | Dark bluish to brownish grey clay, containing variable amounts of fine-grained sand and silt. The clays generally weather to a chocolate-brown colour, and the more sandy beds to an orange shade. |
| Harwich Formation                                         | Blackheath Beds – isolated areas       | Flint gravel, partly clast-supported, in a matrix of fine- to coarse-grained sand, with lenses of sand and thin clay layers.                                                                       |
| Lambeth Group                                             | Woolwich, Reading and Upnor Formations | Mottled clay with fine-grained sand, laminated clay, flint ‘pebble’ beds, and clay with shells.                                                                                                    |
| Thanet Sand Formation                                     | Thanet Sand                            | Homogeneous glauconitic silty fine sand.                                                                                                                                                           |
|                                                           | Bullhead Bed                           | Thin pebble-bed consisting of unworn, green-coated flints set in a matrix of bright green, glauconite-rich clayey sand.                                                                            |
| Upper Chalk                                               | Seaford and Lewes Formations           | Very fine-grained porous limestone, uncemented and can contain more than 98% calcium carbonate. Flints are a nodular form of silica that appear at intervals throughout the Chalk.                 |

The only parts of the site which have not been quarried or altered significantly are Western Cross Farm, Alkerden Farm and very narrow strips along the site boundary. In these areas, the stratigraphy is likely to comprise Made Ground overlying undifferentiated Quaternary Deposits overlying Lambeth Group and Thanet Sand, underlain by Chalk.

## 5.2 Ground conditions

### 5.2.1 Quarry overburden

Within the quarry the ground conditions of the site principally comprise quarry backfill overlying the old chalk quarry floor. Across the quarry there is a variable thickness of backfill. The maximum chalk excavation depths achieved during quarrying have been determined from an analysis of historical quarry survey records provided by Lafarge, the resulting elevation model is illustrated in Figure 10. The approximate thickness of placed fill material in each part of the site has then been calculated by a comparison of present day levels with the maximum excavation depths, and is illustrated on Figure 11. The thickness of the fill is approximated to be up to 50m in parts of Alkerden, where the quarry base was excavated to -6.5m OD.

The quarry backfill is predominantly a variable mixture of sand (Thanet sand and granular units of the Lambeth Group) and clay (cohesive Lambeth Group and minor London Clay). However the backfill may also contain by-products from the chalk quarrying and washing activities which could range from flints, reject chalk and dredgings from sumps and lagoons. It is also possible that the quarry backfill will contain other soil and aggregate wastes. During the excavation and placement of fill during the Stage 1 (Castle Hill) development works various anthropogenic materials were encountered ranging from metal, wood and even vehicles. However, these materials only made up a very small proportion of the soils moved.

### 5.2.2 Potential for anthropogenic Made Ground

In and around formerly developed areas of the site such as haul roads, conveyors and the washing plant there is the potential for Made Ground with some anthropogenic content. There is also the potential for demolition rubble to be present on site, produced from the demolition of structures at the washing plant, and possibly from other unnatural sources.

During the walkover (as detailed in Section 2.3) various stockpiles of materials were observed at the surface. The Alkerden and Washing Plant zones in particular were noted to contain soil and rubble stockpiles. A summary of some of the backfill materials observed on site in addition to the reworked natural overburden soils is given below. This is not an exhaustive list and comprises only particular stockpiles that were observed during the walkover.

- Demolition rubble comprising concrete, brick, tarmac, and minor metal and plastic in the north of Alkerden (see Table 1).
- Rubble, comprising flints, concrete and metal rods and bars, some of which were observed to be stained orange on the surface, many observed near the centre of Alkerden (see Table 1) and one by the southern lakeshore.
- Reject chalk and fine chalk silt, in small dry slightly vegetated heaps in the centre-east of Alkerden (photo N).



- Surface vegetation and topsoil strip stockpile rows, in the south and southwest of Alkerden (Figure 2).
- Twisted metal, wood and soils, observed from a distance near the washmills lagoons (see Table 2).
- Stockpiles variously comprising reject chalk, flints and overburden soils stockpiled within the washing plant area.
- Stockpiles of soils and aggregate within the recycling facility in the south of the washing plant (see Table 3). It is expected that these stockpiles will be cleared from site prior to the redevelopment in this area.
- Flint in the form of fine to medium angular flint gravel in stockpiles at the south-western lakeside area (see Table 4).
- Stockpiles of tarmac and concrete at the edge of the track that descends from the site entrance on the A2 into the western part of the site (photo Z).

Crushed concrete aggregate was observed to be in place surfacing trackways across site, including the track across the south and west of site (photo T). It should also be noted that concrete hardstanding remains in place across much of the Washing Plant, and some structures remain in-situ here too. The Washing Plant may be located on Made Ground. Buildings also remain in-situ at both Alkderden and Western Cross Farms, and there is the potential for Made Ground to be present in both these areas.

## 5.3 Groundwater

### 5.3.1 Aquifers

The hydrogeological setting will be described in detail in the Hydrogeological Risk Assessment, which is currently in draft pending discussion with the environment agency. The primary groundwater receptors are summarised here.

The site is located within the principal aquifer of the Upper Chalk. The Environment Agency is likely to consider this area to be highly sensitive with respect to groundwater protection.

The predominant groundwater flow direction in the region is in a northerly direction towards the River Thames, although this is locally altered by groundwater abstraction.

Perched water may occur locally within the quarry backfill. The permeability of the quarry backfill will vary depending on the nature of the soils and weather they are clay (clays from the Lambeth Group) or sand (Thanet Sand) dominated. Due to the variable nature of the quarry backfill in terms of clay content and compaction there may be isolated permeable pockets that contain perched water at different locations in the fill.

### 5.3.2 Groundwater levels

Regional groundwater levels in the Chalk aquifer have been altered by dewatering operations related to quarrying in the past. Prior to dewatering (in 1972 on Kent River Authority map) groundwater levels were measured at between +7.5mOD to +3mOD from south to north across the site, with the +5mOD water table contour through the site. These levels concur with the level to which chalk was generally extracted in dry conditions (+4mOD to +5mOD).

Since quarry dewatering has ceased, groundwater levels have risen. Water level monitoring is ongoing at Eastern Quarry. Recently measured water levels at the lake on site ranged from +4.3mOD to +5.3mOD. In the Alkerden Farm Quarry area, limited records suggest water level around +3.4mOD to +3.6mOD. These groundwater levels are in general agreement with levels recorded elsewhere at Eastern Quarry, which are generally between +3mOD and +6mOD.

### 5.3.3 Abstractions and source protection zones

Two groundwater source protection zones are located within the site as shown in the map reproduced as Figure 12. The inner protection zone areas (zone 1) are located in the north-western corner and south-east parts of the site.

The source protection zone located at the north-western corner of the site is associated with the Thames Water abstraction borehole. From discussions with Thames Water it is known that this abstraction is not yet active and will not be turned on for at least five years. The other source protection zone in the south-east is associated with the Mullins Fissure borehole (MFBH). This was previously related to abstraction of groundwater to allow quarrying at the site. As it was not intended for potable supply, and is no longer active, there has been discussion that the abstraction should be de-classified as a source protection zone.

There are multiple entries for both abstractions in the Envirocheck report.

The Point A groundwater abstraction is located at the southwestern corner of the washmills lagoons and was registered most recently to Land Securities and previously Lafarge and Blue Circle for construction use.

Point E is located in the far northwestern corner of the site and is registered to Thames Water for potable public water supply. The Point E borehole was also previously registered (in 1993) to Empire Paper Ltd. for use as process water in paper and printing.

Four public potable water supply boreholes are located within 1km of the site to the south and west. All are operated by Thames water and the nearest is 660m south of the site at Drudgeon Farm.

## 5.4 Environmental consents and permitting

### 5.4.1 Potential sources of pollution

Two registered pollution incidents to controlled waters are recorded within 250m from the site. One was 55m from Craylands Gorge, and was a minor incident from 1999 for failure of an above ground pipe and related diesel spill. The other was 70m from the site in the southwest corner and was a minor incident in 1998; caused by sewage overflowing a septic tank. No other incidents were recorded within 250m of the site. A major pollution incident concerning herbicides is recorded 380m southwest of the site at Bean Lane, though the distance and the age of the incident (occurring 1999), makes it unlikely this would have an impact on the site.

One substantiated pollution incident is recorded on site. It occurred on 4<sup>th</sup> March 2002 and concerned a diesel oil spill in the vicinity of the fuel tanks in the washing plant area. The Envirocheck states that the incident has been located to an accuracy of 10m to 559390, 173085, as shown on Figure 13. This is understood to be the same diesel spill referenced in the previous reports [1][4][6]. The non compliance report form for the preliminary recording of this incident has been supplied, and is included in Appendix C of this report. The description of the incident is recorded as follows:

*“Major diesel spill from AMPL’s fuel tank, Approx 20,000l escaped. Malicious.”*

A hand written note on the record signed and dated in October 2005 states that:

*“About 40 tonnes of heavily contaminated material were removed to Cleanaway, Ockenden landfill site. Rest of material put through the process. EA satisfied with methodology.”*

It is therefore understood that the spill was caused by vandalism, and that it was remediated to the satisfaction of the Environment Agency at that time, as detailed in previous Arup reports. However, the volume of the spill is large, and Arup has not been provided with any details of remediation targets or verification works, and as such residual diesel left in the ground is possible.

No other substantiated pollution incidents were recorded within 250m of the site.

### 5.4.2 Landfill and waste records

There is a historical landfill registered at the site within the Alkerden area, for disposal of inert waste. There are no further details available in the Envirocheck report or on the Environment Agency website on the dates that waste was accepted or the licencing details, suggesting that it was operational prior to licensing regulations in 1974. The boundary of the landfill area given is within the northeast of Alkerden accessed from a driveway previously located at the eastern edge of the Alkerden farm area from the corner of the existing Durrant Way (Figure 13). The definition of inert waste has changed over the years and inert prior to 1974 is often substantially worse quality than the current inert definition. As such, the waste may include contaminants.



Knockhall Chase landfill is located 330m north of the site at Greenhithe. This landfill took in inert, industrial, commercial and household waste from 1977 to 1985, and is currently in use for grazing animals. Further details on the wastes accepted at the Knockhall site are given on page 18 of Datasheet B in the Envirocheck report. The Environment Agency website has records that some form of hazardous landfill gas control measures are installed at this landfill. There are residential properties surrounding the landfill and located between the landfill and the site.

Further historical landfills are located within 1km of the site shown in Figure 14 and summarised in the table below.

Table 14 Historical landfills within 1km of the site

| Source          | Waste received                           | Period of Operation | Distance and direction |
|-----------------|------------------------------------------|---------------------|------------------------|
| Knockhall Chase | Inert, commercial, industrial, household | 1977 to 1980        | 330m north             |
| Craylands Lane  | Inert, commercial, household             | Until 1977          | 500 North              |
| Stone 9a 1976   | Inert, commercial, household             | 1967 to 1979        | 548m West              |
| Churchpath Pit  | Inert, industrial                        | 1981 to 1987        | 767m Northwest         |
| Southfleet Pit  | Inert                                    | Unknown             | 800m East              |
| Bamber Pit      | Inert, industrial                        | 1977 to 1993        | 900m Northeast         |

The soil recycling and treatment facility operating out of the southern part of the former washing plant area (Figure 13) is registered as a Licensed Waste Management Facility, authorised by the Environment Agency to produce up to 75,000 tonnes per year of soil. There are also two waste management facilities located within 100m of the southern site boundary within the light industrial area on Watling Street, one for special waste transfer, and one for end of life vehicles.

There is one active contemporary trade directory entry listed on the Envirocheck report located within 100m of the site. It refers to the on-site recycling facility in the southern washing plant area, though it is incorrectly positioned 50m off-site on the Industrial land use map A.

### 5.4.3 Other industrial land use

Except for the soil recycling facility mentioned above, the only other active contemporary trade directory entry within 250m of the main site is a road haulage services company operating out of Watling Street 103m south of the site. There are three other active entries within 250m of Craylands Gorge in the north, relating to air conditioning services, servicing domestic appliances and recycling.

There are no recorded petrol stations within 500m of the site.

## 5.5 Sensitive sites

There are some recorded areas of ancient and semi-natural woodland location within 100m to the south of the site.

An SSSI referred to as the Swanscombe Skull Site is located just 30m north of the site on the edge of Swanscombe, directly north of Alkerden Farm and east of Craylands Gorge. This small heritage park is the site of a former gravel pit and where some of the oldest human skull fragments discovered in the UK have been found. This is the only sensitive site within 250m of the site.

## 6 Previous investigations

### 6.1 On site

Previous investigations at Eastern Quarry have focused on the Stage 1 (Castle Hill) development site, however some exploratory holes were also excavated on the Stage 2 side of the site.

During the preliminary Fugro investigation in 2002 one borehole and four trial pits were completed on the site. No geoenvironmental testing was completed.

During the Phase 2 investigation by May Gurney in 2005, nine boreholes were excavated across the Alkerden area and two trail pits were excavated to the southeast of the Washmill Lagoons. This investigation was prior to the first phase of earthworks across the Alkerden and Cherry Orchard Quarries. Soil samples from some boreholes and trail pits were tested for limited suites of contaminants, further details are given below.

Table 15 Exploratory hole locations from previous investigations on site

| Area                      | Boreholes                                               | Trial Pit     |
|---------------------------|---------------------------------------------------------|---------------|
| May Gurney Phase 2 (2005) | BH1, BH4, BH16, BH37, BH40, BH81, BH85, BH123 and BH140 | TP123 and 124 |

Samples from the boreholes in the Alkerden area were tested variously for: metals, cyanide, sulphur and organic content (20 samples); for chloride, magnesium, nitrate and sulphate (14 samples); and for leachable iron (4 samples).

In general results were low and all concentrations were assessed as below acceptance criteria used in the Arup 2007 GIR report on the investigation, except for the leachable iron. Three of the four samples tested had leachable iron above the DWS of 200µg/l, up to a maximum of 1100µg/l in one sample.

Results from the Stage 1 (Castle Hill) side of Eastern Quarry from the May Gurney investigations (Phase 2 and 3) reported in the 2007 GIR [5] also indicated elevated leachable iron and manganese in most of the samples tested. These are naturally occurring minerals in the natural soils that make up the quarry backfill. Further assessment as to the risk of leachable natural minerals is included in the hydrogeological risk assessment, which is currently in draft pending consultation with the environment agency.

### 6.2 Stage 1 (Castle Hill) investigations and earthworks

#### 6.2.1 Ground gas

During the May Gurney Phase 2 and 3 ground investigations at the Stage 1 (Castle Hill) development site ground gas monitoring was undertaken in boreholes in the northeast of site to investigate the potential for hazardous ground gases migrating



from the off-site Northfleet landfill. Some elevated concentrations of carbon dioxide were detected in standpipes and as such further gas monitoring was recommended.

Gas from the offsite landfills was discounted, but the results suggested the potential for elevated carbon dioxide associated with the natural backfill materials used in the landforming works.

Arup undertook several phases of detailed investigation, ground gas monitoring and site-specific risk assessment across the Stage 1 site [7][10][16][21][25]. This comprised the installation of stratified standpipes, traditional ground gas monitoring, and the continuous monitoring of ground gas in selected standpipes (using GasClams) together with bespoke surface flux boxes installed with GasClams for continuous monitoring.

Based on the results obtained from the various techniques across Stage 1 (Castle Hill) during the ground investigations and monitoring, it was concluded that the elevated concentrations of carbon dioxide present in the ground beneath the site (up to 52.4%) do not pose an unacceptable risk to the residential end users and that the Stage 1 site is suitable for residential development, assuming some basic ground gas protection is installed.

Following liaison and discussions with the NHBC, Arup developed a hybrid system of ground gas protection for traditional construction residential properties in the form of 'enhanced' Amber 1 measures set out as two potential options that will allow some commercial flexibility for the house builders. This was approved and accepted by the NHBC.

Given the high concentration of carbon dioxide detected in standpipes at Stage 1 (Castle Hill) and the requirement for risk assessment and mitigation from the NHBC, it should be expected that some form of investigation and potentially ground gas protection may be required at the Stage 2 site.

## 6.2.2 Earthworks verification at Stage 1 (Castle Hill)

As explained in Section 3.4 above during the Stage 1 (Castle Hill) development works, as required by the planning condition there was a ground contamination strategy [6] in action, which comprised a watching brief and specified frequencies for materials testing to be undertaken throughout the earthworks phases.

During the 2008/2009 earthworks undertaken across Stage 1 a watching brief for contamination and verification sampling was undertaken. Details of the verification works are given in the Castle Hill and Weldon Verification report from November 2009 [8]. The verification report details how potentially contaminated material identified in the watching brief was recorded and sampled at a higher frequency than that required for the verification of reworked natural materials as required by the ground contamination strategy [6]. Three areas of potentially contaminated materials were encountered during excavation works, which comprised a total of approximately 8,500m<sup>3</sup> of material (i.e. less than 1% of the total excavated materials during landforming works). A small proportion of the potentially contaminated material results exceeded the residential criteria for metals (arsenic and nickel) and TPH set out the contamination strategy report.

These soils were stockpiled in the Alkerden area, previously referred to as the Borrow Area. The source and desination locations of the stockpiles is shown in the figure included as Appendix E. These soils could be suitable for reuse in the development following additional risk assessment or segregation and treatment.

During the subsequent parcel specific earthworks phases soils were also subject to a watching brief and verification sampling and testing in accordance with the strategy [6]. The earthworks verification is now completed for Parcels 1, 2, 3 and 5 [8][17][22][23]. During these works no anthropogenic Made Ground or potentially contaminated soils were identified in the watching brief. Of verification soil samples tested none were found to be chemically unsuitable for reuse. (A small volume of soils from the Parcel 2 site was found to be geotechnically unsuitable, and as such were stockpiled in the Alkerden area.)

### 6.2.3 Excavation of the Castle Hill lagoons

During the earthworks at Stage 1 geotechnical remediation of existing deep flooded quarry cells, or lagoons was required. These were “soft spots” and excavation of the chalk silt was required, prior to filling and compaction with suitable site sourced backfill materials.

During the excavation works at the Castle Hill lagoons various buried items were discovered, including: waste metal, concrete and even cars. It is possible that similar potential sources of contamination may be encountered during earthworks at the Washmill Lagoons in Stage 2.

## 7 Conceptual model and risk assessment

---

### 7.1 Potential sources of contamination

#### 7.1.1 Summary of key issues

A detailed review has been completed for this desk study discussing the history of the site and considering the potential land quality and ground contamination issues. No significant potentially contaminative heavy industry has been identified on site. The site has had various previous uses that have been dominated by quarrying and backfilling. Some specific areas of the site have housed processes that have the potential for contamination in that area.

The Washing Plant in the south east of the site included fuel storage tanks. It is known that at least one significant spill has occurred in that area that was previously remediated. Chalk quarrying and treatment is not by nature significantly contaminative. However, leaks and spills of hydrocarbon fuels, oils and other hazardous liquids may have occurred from tanks, quarry and washing plant, equipment and vehicles, or from plant or vehicle maintenance or similar activities. The washing process results in waste slurry. This was historically placed in lagoons. The lagoons will tend to concentrate potential contaminants, if present, and there may be slightly elevated levels in the material remaining in those locations.

In addition to quarrying, the site has been subject to extensive backfilling during the many years of operation. The majority of the backfill is expected to comprise re-worked natural overburden soils with no imported wastes or industrial fills. This was the case during the Stage 1 development at Castle Hill. However, occasional (rare) anthropogenic materials have been encountered during previous works. The site is in a sensitive environmental location, and in particular there are source protection zones on site, including inner protection zones. The quality of the backfill is expected to be good, but it is known that the soils that make up the natural overburden placed on site can contain naturally elevated levels of certain metals and inorganics. These could include iron and manganese and also low levels of some other metals such as selenium and antimony. A hydrogeological risk assessment is currently in production by Arup, the report is in draft pending discussion with the environment agency.

In addition to the potentially elevated metals associated with the natural overburden, it has been shown during the Stage 1 development works that the elevated carbonate content of the natural soils, combined with methods and depths of placement and the local chemistry such as slightly acidic rain can result in greatly elevated concentrations of carbon dioxide developing over time in the placed fill. In the last few years Arup has designed and implemented extensive ground gas investigations using multiple investigation techniques. The conclusion of those assessments was that elevated concentrations of carbon dioxide present in the ground do not pose an unacceptable risk to the residential end users and that the site is suitable for residential development, assuming some basic ground gas protection is installed. This has been agreed on a parcel by parcel basis. The



monitoring has been undertaken over a number of years and utilised many lines of evidence to arrive at that conclusion. There may be opportunities during the next phases of investigation, assessment and land forming works to minimise this phenomenon, as it was not consistent across the Stage 1 development site, although that is subject to further research, testing and financial viability.

The assessment of the history of the site and surrounding area has identified various smaller features, such as extraction pits that were backfilled, saw pits, kilns and other operations. These features will require investigation and may result in some local intervention, including potential screening and segregation of any unsuitable materials.

The Environmental Statement for Eastern Quarry 2 (November 2003) outline planning application, which included the entire site stated that;

- the site is unlikely to be significantly impacted by contamination;
- if localised impacted soils are encountered during the cut and fill operations, they will be assessed by chemical testing and remediated or removed where necessary;
- the potential for effects to construction works are likely to be minimal; and
- the landform will not be altered by imported materials.

The principle of that assessment is still valid and based on the desk study research described in this report the potential for significant wide spread contamination is considered to be low. This study has identified a range of specific locations that have an increased potential for contamination, and will therefore, require more detailed investigation and assessment in subsequent stages of development. These contamination and land quality issues are discussed below.

### 7.1.2 Contamination sources and land quality issues

Potential sources of contamination have been identified from various sources of evidence consulted in the desk study, and from the walkover survey. The identified sources are detailed below, with the location of each indicated on Figure 13 where feasible to do so.

Table 16 On-site potential sources of contamination and land quality issues

|                       | Source                                        | Location on site                                                                              | Contaminants of concern and significance                                                                                                                                                            |
|-----------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contamination sources |                                               |                                                                                               |                                                                                                                                                                                                     |
| S1                    | Made Ground and demolition rubble stockpiles. | The north of Alkerden Farm Quarry and near the Washmill Lagoons and within the Washing Plant. | Generally low potential, demolition rubble has increased potential for asbestos.<br><br>Typical contaminants include PAH, TPH, metals, inorganics, asbestos.<br>Previous testing showed low levels. |

|    | Source                                                                                                                                                                     | Location on site                                                                                                                                                                                   | Contaminants of concern and significance                                                                                                                                |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S2 | Lagoons; may concentrate contaminants in sediment.<br>Other anthropogenic materials, i.e. cars and random materials                                                        | Washmill Lagoons<br>Previous testing showed low levels of PCBs and some other contaminants. The PCB may have resulted from deposition of air emissions from offsite sources in the last.           | Generally low potential, demonstrated by previous testing.<br>A range including PAH, TPH, PCBs metals, inorganics, asbestos                                             |
| S3 | Historic 20,000 litre diesel spill.                                                                                                                                        | Within the Washing Plant, near the current fuel tanks.                                                                                                                                             | Previously remediated but potential for residual hydrocarbons<br>TPH, PAH and BTEX                                                                                      |
| S4 | Fuel tanks and refilling point.<br>There is also the potential for additional spills and leaks from quarry plant onto the quarry floor throughout operation of the quarry. | In the north of the Washing Plant area.<br>It is known that spills occurred in the past. Site walkover identified staining around refuelling area. Main tanks were banded.                         | Moderate potential but localised areas<br>TPH, PAH and BTEX                                                                                                             |
| S5 | Electrical sub-stations and transformers.                                                                                                                                  | Main sub-station located in the washing plant area.<br>There was also previous transformers and compounds on the quarry floor identified in previous walkovers.                                    | Low to moderate potential but localised areas<br>Transformer oils and lubricants. TPH, PAH and BTEX.<br>Localised asbestos from equipment vandalised or broken on site. |
| S6 | Unknown backfill materials at Alkerden Farm and Western Cross Farm chalk pits. Saw Mill and Kilns                                                                          | Alkerden Farm and Western Cross Farm, see Table 10 and Table 11.<br>Saw mill pit may have been filled, though subject to later excavation. The Kilns often used asbestos in construction materials | Low potential<br>Metals, PAH, asbestos, hazardous ground gases                                                                                                          |
| S7 | Old 'Inert' waste landfill registered in the north of Alkerden. (likely prior to 1974)                                                                                     | In the northeast of Alkerden.<br>The definition of inert has changed and pre-1974 have a potential for a range of contaminants                                                                     | Low to moderate potential.<br>Metals, TPH, PAH, asbestos, inorganics, hazardous ground gases. Potential for other contaminants                                          |
| S8 | Soil recycling facility currently present on site.                                                                                                                         | On the southern (upper) terrace of the Washing Plant.                                                                                                                                              | Very low potential<br>Metals, PAH, asbestos                                                                                                                             |
| S9 | Stockpiles of concrete and flints, some stained orange at the surface.                                                                                                     | In the centre of Alkerden, and at the southern lakeside.                                                                                                                                           | Low potential and very localised                                                                                                                                        |

|                                                                                                                                                                                                                                                                                               | Source                                                                                                                    | Location on site                                                                                                                                                                                   | Contaminants of concern and significance                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                               |                                                                                                                           |                                                                                                                                                                                                    | Iron or manganese or other chemical (evidenced from rust-coloured staining)                                                                                                                   |
| S10                                                                                                                                                                                                                                                                                           | Stockpiles of material previously determined not suitable for immediate reuse for the Castle Hill development             | In the north and centre of Alkerden.<br>The concentrations of total and leachable contaminants was not high rather the material was identified as not immediately suitable without for assessment. | Very low potential<br>Low levels of TPH, PCB, PAH and metals.                                                                                                                                 |
| S11                                                                                                                                                                                                                                                                                           | Site areas used as agricultural land.                                                                                     | Alkerden Farm field and across the site where land has been farmed in the past.                                                                                                                    | Very low potential and likely localised<br>Various fertilisers, potential for pesticides. Asbestos materials of used in farm buildings and sometimes then disposed to land or used in tracks. |
| S12                                                                                                                                                                                                                                                                                           | Potential for cement kiln dust (CKD)*                                                                                     | Within the quarry backfill.                                                                                                                                                                        | Very low potential as off-site activity<br>Most inorganic chemical constituents. Potential (very low) for PCB/dioxin/furan.                                                                   |
| Land quality issues                                                                                                                                                                                                                                                                           |                                                                                                                           |                                                                                                                                                                                                    |                                                                                                                                                                                               |
| S13                                                                                                                                                                                                                                                                                           | Quarry backfill, end-tipped up to 50m thick, comprising predominantly reworked natural overburden and reject chalk spoil. | Throughout the former quarry, in particular in areas of deep backfill (see Figure 11)                                                                                                              | Relatively high potential but can be mitigated<br>Carbon dioxide gas generated by carbonate weathering of Lambeth Group Shelly Beds and chalk).                                               |
| S14                                                                                                                                                                                                                                                                                           | Quarry backfill, end-tipped up to 50m thick, comprising predominantly reworked natural overburden and reject chalk spoil  | Throughout the former quarry, in particular in areas of deep backfill (see Figure 11), especially where materials are to be filled directly in source protection zone                              | Relatively high potential but can be assessed and managed<br>Slightly elevated levels of naturally occurring metals (selenium, beryllium, barium, chromium and lead                           |
| * The cement kilns are known to be located off-site at Northfleet cement works on the Thames Estuary. CKD has not been identified during investigations at Castle Hill and is not considered likely to be present on site. It is therefore discounted as a potential source of contamination. |                                                                                                                           |                                                                                                                                                                                                    |                                                                                                                                                                                               |

Table 17 Off-site potential sources of contamination

|     | Source                | Distance and direction | Contaminants of concern                                                                                               |
|-----|-----------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| S15 | Landfills within 1km* | N/A                    | Very low potential. Landfills are a considerable distance<br>Dissolved contaminants or gas could migrate to the site. |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Source                                                                     | Distance and direction                                     | Contaminants of concern                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| S16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fuel spills from vehicles at the road haulage yard                         | 100m south                                                 | Low potential to significantly affect the site.<br>TPH, PAH and BTEX                                                                |
| S17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brick works and brick pit, and potential for unknown landfill in this area | Adjacent to the southwest                                  | Low potential to significantly affect the site.<br>Leachable contaminants migrating to site, (metals, TPH, PAH, inorganics). #      |
| S18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Small chalk pit                                                            | Adjacent to the south (just to the east to the brick pits) | Very low potential to significantly affect the site.<br>Leachable contaminants migrating to site, (metals, TPH, PAH, inorganics). # |
| <p>* Knockhall landfill is not considered to be a source of ground gas, given the distance from site and the fact that residential housing has been developed between the landfill and the site. However, large scale dewatering at the site has the potential to draw in leachate from nearby landfills if they are not appropriately lined. The radius of influence of the proposed dewatering is not yet known.</p> <p># There is very limited potential for hazardous ground gases to migrate from infill at the brick pit or chalk pit to the site, as they are located at a significantly higher ground level than the proposed development.</p> |                                                                            |                                                            |                                                                                                                                     |

Levels of contamination in soils on the site are expected to be low, however a number of potential sources have been identified and will need to be investigated. The site is large and the vast majority of the soils on site that will be moved during the earthworks and that will form the development platform are expected to be clean naturally derived soils. Various locations of unknown backfill materials have been identified on site (shown with orange hatching on Figure 13), and as such the potential for contamination cannot be discounted.

There is also the potential for fuel spills and leaks in various locations on site, and given the sensitivity of the site with respect to the chalk principal aquifer and potable water abstractions these should be considered significant at this stage.

## 7.2 Potential receptors

Potential receptors at the site comprise:

- Site users (adults and children) after development; residents, workers and visitors.
- Construction workers during development;
- Site neighbours during construction. Neighbours include: residents to the north at Knockhall and Swanscombe, there are some residents to the south on Watling Street and new residents at Castle Hill to the east.
- The chalk aquifer, particularly within the Thames Water abstraction source protection zone in the northwest of the site.
- The lakes located on the Eastern Quarry site (although the new lake is lined).

- Offsite designated ecological receptors;
- On site future ecological receptors after development including planting.
- Building materials and infrastructure of the proposed development, including water supply pipes.

### 7.3 Potential pathways

Potential pathways considered with the assessment of contaminant linkages include the following:

- ingestion of soils or dust;
- inhalation of vapours, gases or dust;
- dermal contact with soils or dust;
- lateral and vertical migration of free phase product (such as petroleum hydrocarbons);
- vertical and lateral migration of dissolved phase product;
- leaching of contaminants directly to groundwater;
- direct contact of building materials with soil and groundwater; and
- migration of hazardous gas and vapours to confined spaces.

### 7.4 Potential contaminant linkages

The potential contaminant linkages from the contamination sources identified on and off-site are discussed in the table below.

Table 18 Potential contaminant linkages

| Pathway                                                                                          | Receptor                          | PCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Human health during construction                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Ingestion of soils and dust, dermal contact with soils and dust or inhalation of dust or vapours | Construction workers and visitors | <p>YES (locally) though can be mitigated</p> <p>In general potential for contamination across the site is very low. Locally potential sources have been identified, and asbestos may be present in some specific areas.</p> <p>Construction workers are at risk from direct contact with soils and inhalation of outdoor dust and vapours. Levels of contamination are however likely to be low, and as such it is likely that these risks will be mitigated by site health, safety and hygiene practices including the use of PPE and good site management.</p> <p>Risks to be defined by ground investigations and working practices zoned based on the issues identified</p> |
| Ingestion of dust, dermal contact with dust, or inhalation of dust                               | Site neighbours or general public | <p>YES (locally) though limited and can be mitigated</p> <p>There are some neighbours immediately adjacent to the site, and the main earthworks will be contained within the former quarry walls (cliffs) that will inhibit significant migration of dust, however general site safety procedures and dust monitoring at boundaries will</p>                                                                                                                                                                                                                                                                                                                                    |

| Pathway                                                                                                           | Receptor                                                     | PCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                   |                                                              | <p>generally be required. If asbestos is discovered on site, specialist additional risk assessment and control measures may be required with respect to dust control and safety.</p> <p>Risks to be defined by ground investigations and working practices zoned based on the issues identified</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Human health after development                                                                                    |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Ingestion of soils and dust, ingestion via plant uptake, dermal contact with soils and dust or inhalation of dust | Future site users, including residents, workers and visitors | <p>YES but mostly limited by form of development</p> <p>Future residents with gardens will be the most sensitive human receptors for the development. The site will undergo significant cut and fill and soils will be defined as suitable for use based on an updated remediation strategy. Most soils will be clean natural soils.</p> <p>Key risk area is in locations of cut, if those correspond with the sources identified in table 16 and 17 as the formation level is more likely to include residual soils.</p> <p>They maybe a potential for direct contact with the soil in gardens and via traceback of soil into residences. They may also be at risk from contaminant uptake via consumption home-grown fruit and vegetables.</p> <p>Risks to be defined by ground investigations. An updated remediation strategy will identify soils suitable for residential, parks and school areas. If contamination identified then additional risk management or remediation required in those areas.</p> |
| Inhalation of gas in buildings                                                                                    | Future site users                                            | <p>YES but manageable.</p> <p>There is a known potential issue due to carbon dioxide generation from naturally occurring carbonate rich strata in the placed materials. Extensive investigations has confirmed that the risks can be managed through appropriate investigation and assessment.</p> <p>A number of new on site burial locations have been identified which may generate other gases as well.</p> <p>Risks to be defined by ground investigations. Gas protection measures may be required in some areas.</p> <p>Opportunity to design out or minimise potential for carbon dioxide by investigation and uses of materials although subject to viability.</p>                                                                                                                                                                                                                                                                                                                                     |
| Controlled waters during construction and operation                                                               |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Vertical and lateral leaching, infiltration and dispersion of ground contamination                                | Chalk principal aquifer and source protection inner zone 1   | <p>YES</p> <p>The chalk principal aquifer is at the surface at the site, and is highly sensitive to any potential leachable contaminants, (including naturally occurring iron and manganese in the overburden soils) this specific. Neither of the protection zones are associated with active abstractions.</p> <p>Risks to be defined by ground investigations. An updated remediation strategy will identify quality of soils suitable for placement in areas of the site. If contamination identified then additional risk management or remediation required in those areas.</p>                                                                                                                                                                                                                                                                                                                                                                                                                           |



| Pathway                                                                            | Receptor                                       | PCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vertical and lateral leaching, infiltration and dispersion of ground contamination | Surface waters                                 | NO<br>The desk study has not identified any sensitive surface water receptors such as streams or rivers close to the site.<br>The existing lake on site will not be present in the proposed development. However, a man-made lake is proposed in the south of the site. The lake on the neighbouring Castle hill site is lined and it is likely that the proposed lake will be similar. The lake will be fed by closed drainage system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Other                                                                              |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Direct contact                                                                     | Building materials, and below ground utilities | YES but will be mitigated<br>Concrete will need to be appropriately specified based on the results of aggressively testing in the ground investigation. If contaminated Made Ground is encountered then additional specification of barrier water supply pipes will be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Uptake of phytotoxic contaminants                                                  | Ecological receptors, flora and fauna          | YES but mostly limited by form of development<br>Gardens and landscaping will be the most sensitive receptors for the development. The site will undergo significant cut and fill and soils will be defined as suitable for use based on an updated remediation strategy. Most soils will be clean natural soils.<br>Key risk area is in locations of cut, if those correspond with the sources identified in table 16 and 17 as the formation level is more likely to include residual soils.<br>They maybe a potential for direct contact with the residual soil in these locations.<br>Risks to be defined by ground investigations. An updated remediation strategy will identify soils suitable for residential, parks and landscaped areas. Topsoil may be sourced from site but are generally likely to be imported.<br>A strategy for testing, verifications and a materials management plan were put in place to allow direct transfer of topsoil from offsite sources during Stage 2. |

## 7.5 Preliminary risk assessment

### 7.5.1 Methodology

A preliminary risk assessment for the proposed development has been undertaken based on the information currently available for the Site.

The method for risk evaluation has been based on a qualitative assessment taking into consideration the magnitude of the potential severity of the risk as well as the probability of the risk occurring. The risk characterisations provided below have been assessed in a scale from very high to very low. A brief summary of each risk classification is provided in Table 19.

Table 19 Risk classifications

| Risk classification | Description of risk                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Very high           | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or there is evidence that severe harm to an identified receptor is currently happening. The risk, if realised, is likely to result in substantial liability. Remediation is likely to be required and may be extensive.                        |
| High                | Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Remedial works may be necessary and mitigation required during development.                                                                                                                               |
| Moderate            | It is possible that harm could arise to a receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Some remediation may be required or mitigation during development may be sufficient to control the risks |
| Low                 | It is possible that harm could arise to a receptor from an identified hazard but it is likely that this harm, if realised, would typically be mild. It is likely that some mitigation will be incorporated during development to be protective of human health.                                                                                             |
| Very low            | There is a low possibility that harm could arise to a receptor. In the unlikely event of harm occurred the consequences would be mild and short. Mitigation may be considered but is often not necessary.                                                                                                                                                   |

The classification of negligible is only used when there is no plausible contaminant linkage due to the absence of a pathway or receptor (without intervention).

### 7.5.2 Risks to human health during construction

Construction workers may be at risk from direct contact with soils and inhalation of outdoor dust and vapours. Levels of contamination are in general likely to be low or absent over the majority of the site, and as such it is likely that these risks will be mitigated by standard site health, safety and hygiene practices including the use of PPE and good site management.

The conceptual model has identified a number of areas around the site where the potential for contamination is higher. It is proposed that each of these areas will be investigated and assessed. The results of those investigations will allow the appropriate specification of working methods and construction health method statements defining any additional enhanced mitigation required during the development of those areas, or for instance during storage of materials arising from those areas. This may include a range of measures such as dust control, enhanced safety and PPE and good site management with zoning of areas.

Site neighbours will be at risk from contact with migrating contaminate soil dust generated from the works on site. General site safety procedures will be defined based on the outcome of investigations and assessments and dust control measures including dampening down will act to mitigate the risk.

Overall risks of harm to human health during much of the construction with naturally derived soils will to be very low. Locally, around some of the sources

(S1 to S14) listed in section 7.1.6 and Table 16 the risk could increase, and if for instance asbestos, hydrocarbons or waste materials were encountered the risk to construction workers (without mitigation) might be moderate. This can be controlled through enhanced risk management procedures and reduced to very low. Further recommendations are provided in Section 8.

### 7.5.3 Risks to human health during operation

Future residents with gardens will be the most sensitive human receptors for the development. They might be exposed to direct contact with the residual soil in gardens and via trackback into residences. There is also the potential for contaminant uptake via home-grown fruit and vegetables and from any migration of hazardous gases into enclosed spaces in buildings. There will also be public parks, schools (with playing fields) and other landscaping.

Levels of contamination on the site are likely to be low, and the majority of gardens will be formed from naturally sourced reworked overburden materials with negligible levels of contamination. The site will undergo significant cut and fill and soils will be defined as suitable for use based on an updated remediation strategy. The strategy will identify the chemical quality of soils for various end uses (updated from the 2008 version of the strategy). Most soils are expected to be uncontaminated natural soils (overburden). The slight higher background levels of certain minerals and metals mentioned earlier in this report are much lower than human health assessment criteria for residential end uses and as such those are not considered significant for human health. The strategy will define the quality of soils used as either general fill at depth in the raising of the land or shallow soils for gardens and landscaping and those soils can be effectively managed. It is not proposed to reuse Made Ground or older landfill soils in areas of gardens and public open space.

The potential for residual contaminants increases in areas of proposed cut (or no fill), if those correspond with the source areas (S1 to S14) identified in Table 16 as the formation level is more likely to include residual soils close to the surface. In these areas there may be a potential for direct contact with the soil in gardens and landscaped areas and via trackback of soil into residences. They may also be at risk from contaminant uptake via consumption of home-grown fruit and vegetables.

The conditions in these areas will be defined by detailed ground investigations (which may be phased). An updated remediation strategy will identify soils suitable for residential, parks and school areas. If contamination is identified then additional risk management or remediation may be required in those areas. This could mean specific treatment, sorting, segregation or removal of soils in those areas and may also include additional thickness of clean cover such as topsoil and subsoil.

There is also the potential for high concentrations of carbon dioxide to exist in the ground on site (arising from the natural carbonate sources). There are a few old inert landfills, and backfilled pits identified in Table 16. If these are not excavated as part of the planned cut (when they can be sorted and treated if necessary) then there is a potential for a range of ground gases originating from pre-1974 landfills.



Risks of harm to future residents are therefore likely to be very low across the majority of the site, especially in areas of fill where the quality can be controlled, however, this may increase to moderate in localised areas with contaminated soils, if these conditions are found to exist on the site.

There may be the requirement to import clean topsoil for residential garden areas if suitable organic soils cannot be sourced on site. Further recommendations are provided in Section 8.

#### **7.5.4 Risks to controlled waters during and after construction**

The chalk principal aquifer is at the surface at the site, and is highly sensitive to any potential leachable contaminants (including naturally occurring iron and manganese in the overburden soils). There are two source protection zones on site including inner (Zone 1) of that zone. The Environmental Agency afford special protection to these zones and has specific policies related to planning and development in these areas.

Arup is currently discussing the status and approach to developing the site with both the Environment Agency and Thames Water (one of the abstractions is owned by Thames Water). One of the abstractions is an old dewatering borehole and has never been used, nor intended to be used, for public potable water supply. As such there are discussions that the source protection zone was wrongly allocated and should be removed. The second source protection zone is for Thames water, in the northwest corner of the site. That abstraction is not yet in operation for potable supply, and Thames Water has confirmed they do not intend to abstract from that location for many years, at least five but possibly more. Arup has discussed the proposed work with Thames Water who have not objected in principle to the proposals. Therefore both of these source protection zones are less sensitive for these reasons.

The construction of the land forming works will first require pumping of the lake to reduce water levels and dry the lake. This will allow clearance of the lake bottom then the successive placement of fill materials in a controlled manner. The leachability of the natural soils in the adjacent Stage 1 (in which extensive investigation was completed of similar overburden natural soils) identified generally low levels with respect to toxic metals and inorganics and the levels of hydrocarbons were very low or absent. Some of the natural soils occasionally report higher leachable iron and manganese concentrations. In addition a number of hazardous substances such as selenium, lead, antimony and others have occasionally been elevated when compared to particular stringent drinking water standards. This is considered to be a reflection of the natural ground conditions in the area (especially the Thanet Sands). These soils exist in this condition currently and would typically form part of the aquifer itself. The leachability results were screened against drinking water standards and some results exceed those levels. The leachability results for iron were broadly similar to concentrations of iron often measured within the Chalk aquifer.

During the Stage 1 works it was proposed to import topsoil from an offsite greenfield site for use on site. Those tests also showed slightly elevated metals and fluoride above drinking water standards. In that case Arup completed a

detailed quantitative risk assessment (DQRA) using Consim software. The soils were being placed above a large unsaturated zone. The model predicted no breakthrough into the aquifer beneath the site would occur within at least 1,000 years and that there was no significant risk based on that conceptual model.

In the case of the Stage 2 development it will necessary to consider the soils being placed on the site. Ground levels will be raised considerably, in excess of 20m in some areas. Water levels will rise within the placed material and there may be options for placing different materials in the areas that will be saturated and unsaturated after development (if that is necessary). There is an investigation proposed and further detailed assessment will be made of the natural soils proposed for reuse on site to ensure those are suitable for reuse in the cut and fill.

The desk study has not identified any sensitive surface water receptors such as streams or rivers close to the site. The existing lake on site will not be present in the proposed development. A man-made lake is proposed in the south of the site. The lake on the neighbouring Castle Hill site is lined and it is likely that the proposed lake will be similar. The lake will be fed by closed drainage system and not be linked to infiltration through soils or groundwater.

The desk study has identified some areas of potential contamination. Many of these have a restively low potential for significant contamination. It is not proposed to use contaminated Made Ground or anthropogenic fills in the cut and fill. The various source areas (S1 to S14) will also be investigated prior to development. An updated remediation and materials handling strategy will identify quality of soils suitable for placement in areas of the site and protocols for placement to minimise the risk to controlled waters. If contamination identified (for instance hydrocarbons from spills and leaks in the Washing Plant) then additional risk management or remediation may be required in those areas. These will be appropriately agreed and verified.

Taking account of the various lines of evidence presented above, and assuming the proposed investigations, assessments and remediation strategy are completed and agreed with the relevant authorities then the risk of significant pollution of controlled waters will be very low.

### 7.5.5 Other receptors

The proposed ground investigations will also allow assessment of the implications of the various sources identified in the conceptual to other receptors which include planting and building materials. The quality of soils in the surface layers of residential gardens and landscaped areas can be appropriately specified. Similarly if there are aggressive ground conditions then appropriate concrete classes can be specified for foundations.

In these is proposed housing or similar buildings requiring potable water supply pipes in the areas identified with potential sources (S1 to S14) then the results of the investigation will inform if enhanced protection such as barrier pipes are required.

Taking account of the above the residual risk to the identified receptors will be very low.

## 8 Conclusions and recommendations

---

### 8.1 Conclusions

The Stage 2 development site is considered to have a generally low potential for contamination that increases in some areas due to previous activities on site. These higher risk areas of the site are a relatively small proportion of the development site and most soils that will be encountered during the extensive cut and fill operation to form the proposed development profile are expected to be naturally derived and uncontaminated.

There are some land quality issues associated the naturally derived overburden backfill that will be reused on site, such as the potential to generate ground gases in certain conditions and low levels of leachable metals. These issues are well understood from the adjacent Stage 1 (Castle Hill) development and will be addressed in detail during the proposed investigation, assessment and development for Stage 2. An updated remediation and materials management strategy will be developed in consultation with the regulatory authorities to allow safe development of the site in accordance with the principles of the National Planning Policy Framework (NPPF) and Environmental Agency policy on protecting groundwater.

Arup previously prepared a ground contamination strategy for the Stage 1 (Castle Hill) area [6]. That report, along with the investigations in that area summarised in an interpretive report [5], were submitted to the local authority to discharge Parts 1, 2 and 3 of Condition 35 (Appendix F). Dartford issued a notice of approval received 15 May 2008 (included in Appendix G). The notice included an informative that stated “*For the avoidance of doubt a site investigation report for Alkerden, Western Cross and the, leisure peninsula are still required-to be approved. The developer is also reminded of Parts 4 and 5 of Condition 35*”. The remediation strategy was implemented (Part 4) and various verification reports have been prepared for the Stage 1 (Castle Hill) development works. It will be necessary to discharge the precommencement aspects of Condition 35 (Parts 1 to 3) for the Stage 2 development works.

Condition 35 includes four parts. The first part includes the requirements for a desk study assessment that states “*the desk study shall detail the history of the site uses and propose a site investigation strategy based on the relevant information discovered by the desk study. The strategy shall be approved by the Local Planning Authority prior to investigations commencing on site.*” This report has been prepared to support applications for the Stage 2 development in respect of Condition 35 Part 1.

In addition to the general land quality issues the detailed desk study has identified fourteen specific potential sources of contamination, generally across localised areas which have been surmised below:

- General Made Ground, surface stockpiles of topsoil, quarry and Washmills by-products, lagoon excavation material, excess overburden soils and construction and demolition rubble at various locations. Also lagoon fills



containing sediments which have previously been shown to have very low levels of specific contaminants. There are also various small areas of excavations outside of the main quarry which were historically backfilled. These are all considered to have a low to moderate potential for significant contamination.

- The walkover and historic information obtained during previous studies identified diesel fuel tanks and an oil waste oil tanks. A previous 20,000 litre fuel spill was known about and some remediation undertaken but that did not include verification. There is a potential for additional spills and leaks to have occurred and there was evidence of oil staining around the existing (disused) fuel pumps). There is an old pre-1974 inert landfill on site. The age of the landfill suggests the potential for contaminated materials and ground gas from this feature as older landfills tended to receive materials that would no longer be classed as inert. All these sources have been classed as having a low or moderate potential for contamination.
- A number of potential sources have been defined as having very low potential for significant contamination on site including the soil recycling facility, some predefined stockpiles with very low levels of know contamination and the potential for CKD on site.

The environmental sensitivity of the site is high, as there is an inner SPZ1 and potable water abstraction borehole located on site. The soils and groundwater at the site are in direct continuity with the drinking water supply.

The sensitivity of the proposed development is high, as the development is to be residential led, including low rise housing with gardens, and therefore the most sensitive end-users.

Table 20 Summary of conceptual model of the development

| Summary conceptual model            | Potential for contamination                                       |
|-------------------------------------|-------------------------------------------------------------------|
| Potential for contamination         | Generally very low, ranging to moderate in some localised areas   |
| Environmental sensitivity           | High, due to the SPZ1 and potable water borehole located on site. |
| Sensitivity of proposed development | High, residential end use with domestic gardens.                  |

It is proposed to undertake investigation across the site, likely in phases. The investigations will include the assessment of ground contamination and assessment of the quality of natural soils for fill. Once completed the results will be assessed taking account of good practice and in a risk based fashion and a remediation and materials management strategy will be set out and agreed with the local authority. In parallel Arup is discussing the principles of the surface water management strategy and a hydrogeological risk assessment with the Environment Agency and Thames Water.

Table 21 Summary of preliminary risk assessment

| Risk                                                | Initial assessment                                                                                                                                                                                                                                                                                                            | Residual assessment after mitigation                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Human health during construction                    | <p>Generally very low for most works with naturally derived soils.</p> <p>The most source areas the risk will be low to moderate.</p> <p>If asbestos identified in areas around Washing Plant or in buried landfill this could increase to high.</p>                                                                          | <p>There will be further detailed investigation and assessment.</p> <p>The remediation strategy will be updated and appropriate measures specified to protect site workers and neighbours.</p> <p>The residual risk to human health will be very low.</p>                                                                                                                                                                                                                                              |
| Human health during operation                       | <p>Across most of the site the risk to human health will be managed through defining materials in areas of fill and will be very low.</p> <p>If areas of cut correspond with potential contamination sources there may be a moderate risk.</p> <p>If fill materials generate gas there is a potential for increased risk.</p> | <p>There will be further detailed investigation and assessment.</p> <p>The remediation strategy will be updated and appropriate measures implemented.</p> <p>It may be necessary for additional remedial measures in some areas. The quality of fill materials, and imported topsoil will be specified. Additional cover layers and gas protection may be required in some areas.</p> <p>The residual risk to human health is very low.</p>                                                            |
| Controlled waters during construction and operation | <p>The risk to controlled waters (groundwater and surface water is generally low). This may increase if contamination is identified in the source areas.</p> <p>The cut and fill will be appropriately specified.</p>                                                                                                         | <p>There will be further detailed investigation and assessment.</p> <p>The remediation and materials management strategy will be updated and appropriate measures implemented.</p> <p>It may be necessary for additional remedial measures in some areas. The quality of fill materials, and imported topsoil will be specified.</p> <p>There are options for reuse of different material at different locations. Groundwater monitoring will be undertaken.</p> <p>The residual risk will be low.</p> |

## 8.2 Recommendations

### 8.2.1 Scope of ground investigation

Currently there is limited geoenvironmental investigation information for the site, the data is old and only covers a very small part of the site. Extensive information is available for similar fill materials from the adjacent Stage 1 (Castle Hill) works, both from investigations and materials testing during earthworks. A combined geotechnical and geoenvironmental ground investigation will be undertaken at the site prior to the first phase of earthworks; the ground investigations are likely to be phased to accommodate project program constraints.

A scope of ground investigation is required as part of planning condition 35. A first phase ground investigation scope, focussing on the eastern half of the Western Cross site, has been compiled targeting the potential source areas identified within this report and general coverage across the site to provide initial information for the design of the earthworks and foundations for the proposed development. It will characterise the stratigraphy and the quality of the quarry backfill material in terms of geotechnical and geoenvironmental parameters. This initial pre-earthworks ground investigation will be completed in at least two phases, the first for the eastern half of the site (Alkerden Farm Quarry area) and the second covering the west of the site and remaining areas.

The objectives of the geoenvironmental investigations are to:

1. investigate and confirm the quality of overburden that will be used as fill in the Stage 2 works;
2. investigate the potential source areas, with targeted exploratory holes, enabling characterisation of the contamination status of those areas and determination of local soil and groundwater quality;
3. provide more detailed investigation in and around the old washmills and areas of infilled ground (i.e. the areas identified with a moderate potential for contamination). This will be a combination of stratified random and targeted investigation in these areas;
4. investigate the other low to very low potential sources to confirm the status in those areas;
5. investigate the levels of contamination on site by testing of soils, groundwater, surface water (in the lake), lake sediment and lagoon materials. Leachability testing will be undertaken.
6. determine a groundwater baseline that can inform further monitoring;
7. investigate the ground gas generation (carbon dioxide) potential and the natural background leachability of overburden soils by including testing for land quality parameters, in addition to potential contaminants.

The ground investigation location plan showing the proposed exploratory hole locations is presented as Figure 15. The specific locations may vary during implementation and will be subject to factors such as access constraints, services and safe working etc. More detail of the technical methodology and specification pertinent to the scope of geoenvironmental and contamination investigation including the proposed chemical testing suites, are presented in Appendix I. The ground investigation will comprise:

- excavation of boreholes to various depths up to 52m bgl;
- excavation of trial pits and trenches to investigate shallow ground conditions and features;
- on site and in-situ geotechnical and geoenvironmental tests;
- installation of groundwater and ground gas standpipes and subsequent monitoring;



- sampling of sediment from the lake and lagoons;
- a soil stockpile audit exercise comprising shallow sampling via machine or hand excavated pits; and,
- sampling and laboratory testing of soil, groundwater and sediment samples.

There are many soil stockpiles ranging in size and origin located at the surface of the site in the eastern Alkerden area. Some of these are known to contain very low levels of specific contaminants, and they have been transported from other parts of Eastern Quarry and stored here. The provenance of every soil stockpile is not certain. It is therefore also proposed to undertake a soil stockpile audit and investigation in order to determine the general chemical quality of each and their suitability for use in the development. The soil stockpile audit will comprise:

- a detailed topographical survey of surface stockpiles on site,
- labelling of all identified stockpiles,
- detailed descriptions of the material within each stockpile, and
- chemical testing of soils (including leachability).

The use of each stockpile will then be considered taking account of the updated risk assessment for the Stage 2 works and the remediation and materials management strategy will describe a materials tracking and verification system. A proposed stockpile sampling location plan is provided as Figure 16.

The results of the ground investigation will be assessed used to inform the earthworks specification, including chemical testing regime. The results obtained from the sampling will be incorporated into a verification report.

Following completion of the earthworks, there will be subsequent phases of ground investigation, likely on a plot by plot basis similar to the approach undertaken in the Castle Hill area of the Eastern Quarry site. These will include shallow boreholes, ground gas standpipes, ground gas monitoring, surface flux boxes and laboratory analysis of soil and gas samples.

### 8.2.2 Materials management during earthworks

It is expected that most excavated soils should be capable of re-use in the development (if there is a material requirement). The CL:AIRE (2011) Definition of Waste: Development Industry Code of Practice (CoP) sets out good practice for the development industry when assessing whether materials are classified as a waste or not and determining when treated waste can cease to be waste for a particular use. It presents an auditable system to demonstrate that the CoP has been adhered to in the assessment of excavated soils as set out in a materials management plan (MMP). The approach was not available when the last land forming works were being carried out, but it has been used in cases more recently where there was a requirement to import topsoil from another site (direct transfer of clean natural soils between sites).

The system is voluntary and requires payment associated with the amount of material included within the plan(s). It does have a number of advantages to its use including:

- provides a clear, consistent and efficient process which enables the reuse of excavated materials on-site or their movement between sites;
- the approach to such work is recorded, and auditable, and the Environment Agency support the use of the code, such that if used they are less likely to regard various reuse activities as waste operations;
- in some circumstances it can reduce or prevent the requirements for environmental permits and exemptions from permitting;
- it is a way of demonstrating the sustainable reuse of materials; and
- it provides a framework for tracking and verifying materials are suitable for use and used in accordance with either a design statement or remediation strategy.

The EA has published a position statement on the CoP to clarify their regulatory position generally confirming their support to the approach. If the CoP is followed, materials previously classified as waste, or materials classified as waste because they require treatment to make them suitable for use, can be re-used in the development (recovered) without the need for an environmental permit (previously a waste management license), except for that required for the treatment process. This will maximise the potential re-use of suitable soils, with or without treatment, and as such is considered beneficial.

The MMP is produced prior to the start of any excavation works and reviewed by a 'Qualified Person' (the competency and qualifications are defined in the CoP). A declaration is submitted to the Environment Agency via CL:AIRE by the Qualified Person before excavation commence. Following the completion of the reclamation/reuse works a verification report provides an audit trail to show that the materials have gone to the correct destination.

The MMP sets out the methodology for re-using soils and has a tracking system demonstrating how the materials are to be used, treated and placed including quantities and mass balance etc.

The verification plan identifies how the placement of materials is to be recorded and the quantity of material to be used. It should contain a statement on how the use of the materials relate to the remediation or design objectives.

The MMP requires a tracking system which should include:

- procedures such that materials containing contaminants not suitable for the treatment process (or processes) do not cross contaminate the materials that are suitable for treatment;
- procedures to demonstrate that materials that do not require treatment and those that have had treatment, reach their specific destination within a development site and are not a waste;
- procedures such that waste for off-site disposal or treatment is properly characterised and goes to the correct facility;

- a record of the various stages of the on-site treatment process (if applicable);
- methods of recording such that there is a clear audit trail of the use of materials; and
- a system for keeping and maintaining records.

The current version of the CoP is the second edition. A third edition is expected to be published before earthworks begin on site and that may bring additional benefits to the project.

### 8.2.3 Protection of construction workers and neighbours

There is potential that materials contained within the sources of contamination identified in the desk study may pose a risk to construction workers during development. During the redevelopment of the site it will be necessary to implement measures to protect construction workers, users of the adjacent public realm and properties and neighbours in adjacent housing from exposure to any contaminated material which is encountered. The methodologies to be used will be based on the outcome of the investigations and assessment(s). In addition the approach will be dynamic such that unexpected contamination or different conditions can be responded to on site.

Appropriate measures to protect construction workers may include training in and enforcement of hygiene procedures, use of personnel protective equipment (PPE), the implementation of dust control measures and a health and safety risk assessment.

Mitigation measures that should be used to counter the identified potential impacts of construction should be incorporated into the Contractor's Method Statements and Health and Safety Plans and include:

- procedures and protocols to prevent construction workers, visitors and neighbours from being exposed to contaminated materials;
- monitoring of excavation works to identify unforeseen areas of contamination;
- gas monitoring of confined spaces, together with appropriate supervision and Confined Space Entry (CSE) training for Site personnel;
- systems to record and monitor the movement and deposition of waste materials leaving or being transported to other parts of the Site; and
- limiting dust generation during excavation and handling of potentially contaminated materials.

To ensure that they do not come into contact with contaminated soil and groundwater, construction workers and Site visitors should wear adequate PPE where appropriate.

### 8.2.4 Earthworks remediation and verification strategy

Once the ground investigations and assessments phases have been completed it will be necessary to update the remediation strategy for the Stage 2 development in accordance with Part 3 of Condition 35.



The Ground Contamination Strategy Report written in 2008 [6] set out a methodology for identifying and dealing with contaminated soils at the Eastern Quarry site. It also defined the approach to earthworks, materials testing and verification for the various types of naturally occurring fill materials. The strategy comprised certain key elements:

- It is expected that the bulk of materials encountered during the development works will be either in-situ natural soils or previously re-worked natural soils. It is expected that these materials will generally be suitable for use and uncontaminated.
- a watching brief for soils other than natural materials i.e. those including anthropogenic materials. Additional testing was specified in that case to determine the status of the material;
- testing frequency and suite for naturally derived reworked overburden soils;
- testing frequency for other materials including lagoon fills, segregated potentially contaminated materials and imported topsoil; and
- a methodology for segregation and increased testing for identified potentially contaminated soils.

It is also recommended that a site specific DQRA is undertaken for the Stage 2 development site. It may be appropriate to perform this DQRA in zones according to the varying groundwater sensitivity on site. The findings of this report could be used to inform the site specific reuse criteria given in an updated strategy.

The 2008 strategy also set out the information required for the verification report. The Contractors verification report will include:

- A summary of key information contained in the specification and development strategy along with the agreed redevelopment strategy and objectives;
- Copies of the Contractor's method statement and health & safety risk assessment;
- As-built drawings of the implemented schemes;
- Details of the parties involved in undertaking the work;
- Colour photographs of key stages of the development work and any remedial measures undertaken;
- Laboratory and in-situ test validation results in accordance with the specification;
- Certificates demonstrating that imported material and/or material left in situ complies with the approved remedial target concentrations; and
- Waste management documentation, details of waste classification undertaken, quantities of waste sent off site and the destination of all waste soils. The report shall include copies of all exemptions, licenses and other duty of care documentation.

### 8.2.5 Soil and materials for services

The UK Water Industry Research Ltd (UKWIR) has published a series of booklets regarding pipe selection on brownfield sites. Much of the site is expected to be uncontaminated but some areas have a potential for contamination. In areas not subject to significant fill which correspond to the sources of contamination then additional measures may be required for potable supply.

In addition, to the guidance written in the published booklets, a computer database has been developed that details the identity, likely combinations, effects and trigger levels for pipeline protection from contaminants found on brownfield development sites.

Thames Water should be consulted regarding the pipe material specification of potable water supply pipes. It is possible that they will require precautions associated with the contaminants identified on Site.

## References

---



- [1] Groundwater Development Consultants (1992) Groundwater Study at Blue Circle Cement Northfleet Works, Phase 1 Final Report
- [2] Arup (December, 2002) Eastern Quarry Development, Desk Study: Soils and Groundwater Issue 1 for Land Securities
- [3] Arup (May, 2004). Ground Contamination Desk Study, Ebbsfleet Valley Management Centre
- [4] Arup (August, 2006) Eastern Quarry 2 Environmental Statement, Volume 1 Main Report
- [5] Arup (December, 2007) Eastern Quarry 2 Castle Hill and Weldon Geotechnical Interpretive Report
- [6] Arup (February, 2008) Eastern Quarry Ground Contamination Strategy Issue 1 for Land Securities Ebbsfleet Valley
- [7] Arup (June, 2009) Eastern Quarry 2 Castle Hill and Weldon, Ground Gas Assessment Report
- [8] Arup (November, 2009) Eastern Quarry 2, Castle Hill and Weldon Contamination Verification Report
- [9] Arup (March, 2013). Eastern Quarry: Phase 1 Castle Hill, Ebbsfleet Valley. Geotechnical Interpretative Report
- [10] Arup (November, 2013) Eastern Quarry Phase 1 development, Ground Gas Assessment Update, Issue 2
- [11] Arup (March, 2014) Eastern Quarry Phase 1 development, Verification Report
- [12] Arup (April, 2014) Eastern Quarry Phase 1 Development, Topsoil Controlled Waters Quantitative Risk Assessment, Issue 1
- [13] Arup (April, 2014) Eastern Quarry Phase 1 development – local park and landscaped areas, Materials Management Plan Issue 1
- [14] Arup (December, 2014) Phase 2 Castle Hill Earthworks Specification
- [15] Arup (March, 2015) Parcel 2, Castle Hill, Eastern Quarry. Geotechnical Design Report
- [16] Arup (August, 2015) Parcel 2, Castle Hill, Eastern Quarry, Ground Gas Assessment, Issue 2
- [17] Arup (August, 2015), Eastern Quarry, Phase 1 Development, Topsoil Import Verification Report, Issue 1
- [18] Arup (November, 2015) Castle Hill, Eastern Quarry, Parcel 2 Earthworks Verification Report
- [19] Arup (2015) Parcel 3, Castle Hill, Eastern Quarry. Geotechnical Design Report
- [20] Arup (2015) Parcel 5, Castle Hill, Eastern Quarry. Geotechnical Design Report

- [21] Arup (January, 2016) Parcel 3, Castle Hill, Eastern Quarry, Ground Gas Assessment, Issue 1
- [22] Arup (January, 2016) Castle Hill, Eastern Quarry, Parcel 3 Earthworks Verification Report, Issue 1
- [23] Arup (February, 2016) Castle Hill, Eastern Quarry, Parcel 5 Earthworks Verification Report, Issue 1
- [24] Arup (February, 2016) Parcel 3b Combined Contamination Verification and Ground Gas Risk Assessment Report
- [25] Arup (July, 2016) Parcel 5, Castle Hill, Eastern Quarry, Ground Gas Assessment, Issue 2
- [26] Landmark Information Group (June, 2016) Envirocheck Report Order Number 89304408\_1\_1, for Ove Arup and Partners International Ltd
- [27] Environment Agency (accessed August 2016)  
<http://maps.environment-agency.gov.uk/wiyby>
- [28] Cement Plants and Kilns in Britain and Ireland (accessed August 2016)  
[http://www.cementkilns.co.uk/cement\\_kiln\\_northfleet.html](http://www.cementkilns.co.uk/cement_kiln_northfleet.html)  
[http://www.cementkilns.co.uk/ck\\_rmp.html](http://www.cementkilns.co.uk/ck_rmp.html)
- [29] UCAP Airsoft Games – Sandpit (accessed August 2016)  
<http://ucap.co.uk/ucap-airsoft-venues/ucap-sandpit-venue/>

## Figures

---



Figure 1 Site location map

Figure 2 Site layout

Figure 3 Existing topography (2016)

Figure 4 Site walkover route and observation locations

Figure 5 Site zones

Figure 6 Outline development masterplan

Figure 7 Proposed contours

Figure 8 Indicative proposed cut and fill zones

Figure 9 1910 Geological Map

Figure 10 Approximate lowest excavated level

Figure 11 Approximate fill thickness (2016 level – lowest excavated level)

Figure 12 Groundwater source protection zones

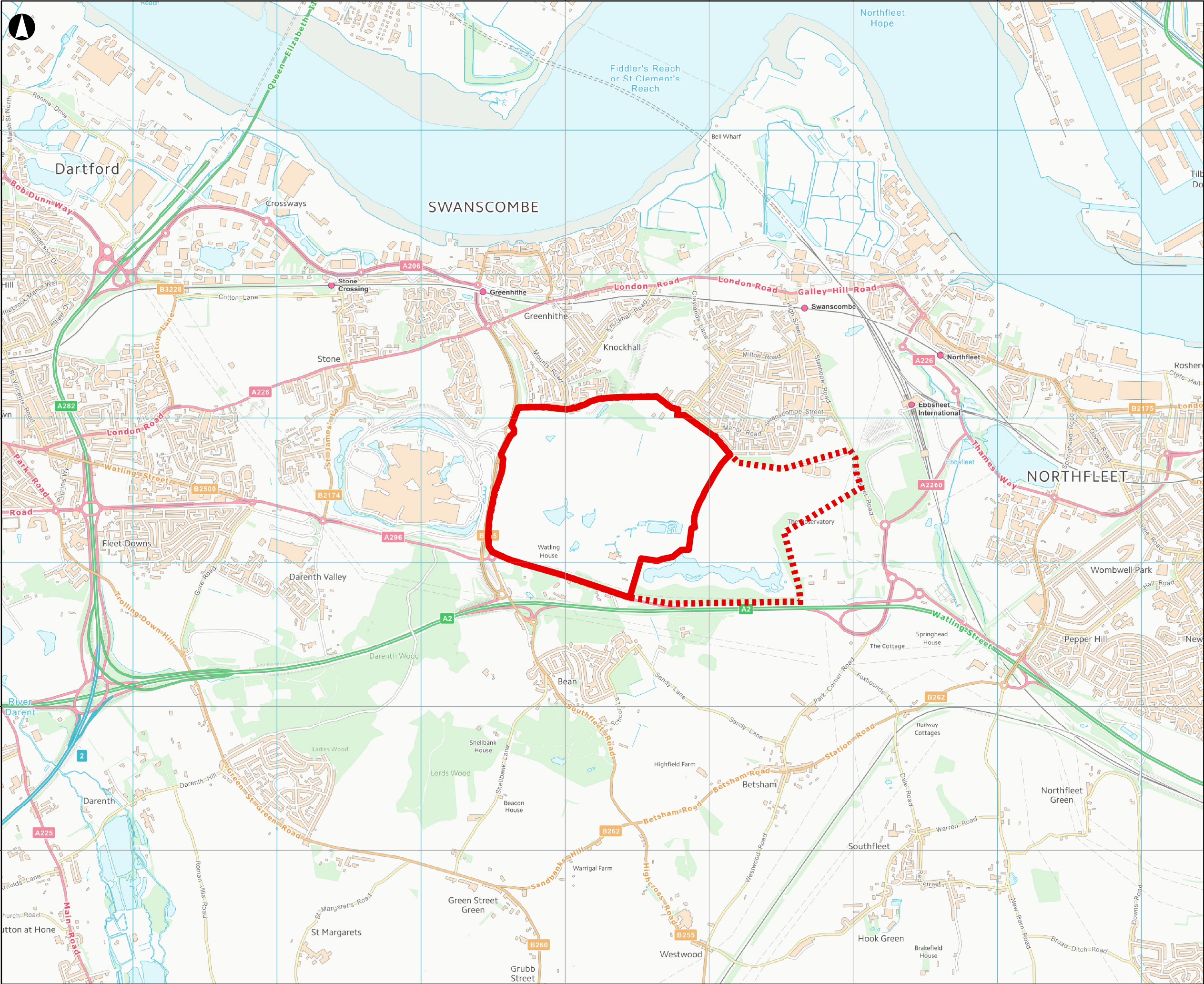
Figure 13 Potential sources of contamination

Figure 14 Landfills and groundwater setting

Figure 15 Proposed ground investigation plan

Figure 16 Proposed stockpile audit sampling location plan

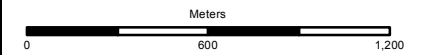




 Western Cross site boundary  
 Eastern Quarry site boundary

[Basemap from OS VectorMap District. Contains OS data © Crown copyright and database right 2016]

|       |            |    |      |      |
|-------|------------|----|------|------|
| P0    | 02/08/2016 | PR | VK   | PM   |
| Issue | Date       | By | Chkd | Appd |



**ARUP**  
13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

**Site location map**

Scale at A3  
**1:25,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                              |                    |
|------------------------------|--------------------|
| Figure No<br><b>Figure 1</b> | Issue<br><b>F0</b> |
|------------------------------|--------------------|



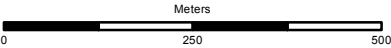


Western Cross site boundary

[Basemaps in this document were created using ArcGIS® software by Esri. ArcGIS® and ArcMap™ are the intellectual property of Esri and are used herein under license. Copyright © Esri. All rights reserved. For more information about Esri® software, please visit [www.esri.com](http://www.esri.com). Imagery from 10/01/2011]

|    |            |    |    |    |
|----|------------|----|----|----|
| P0 | 02/08/2016 | PR | VK | PM |
|----|------------|----|----|----|

|       |      |    |      |      |
|-------|------|----|------|------|
| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
[www.arup.com](http://www.arup.com)

Client

Henley Camland

Job Title

Eastern Quarry Stage 2 -  
Western Cross & Alkerden

Site layout

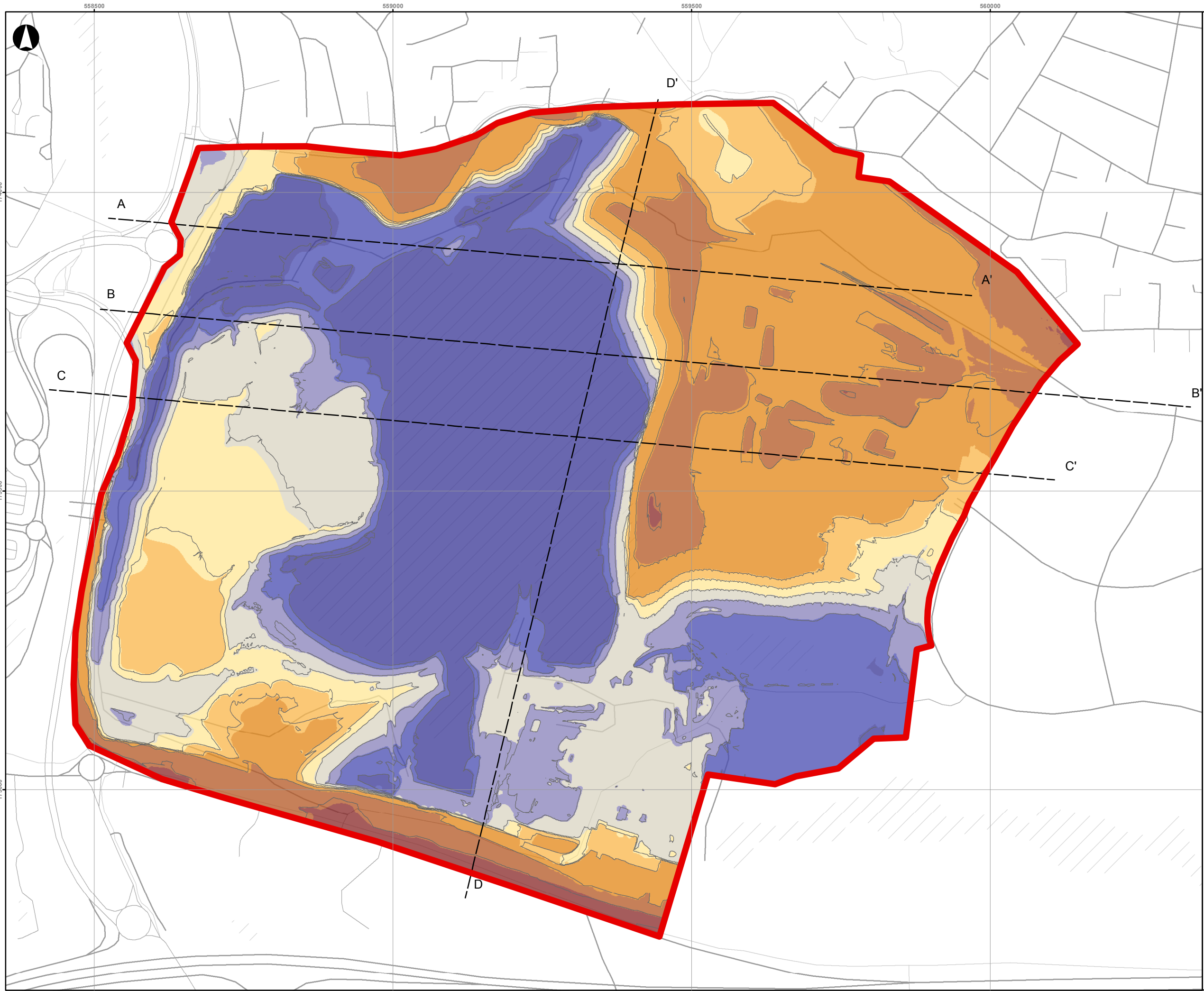
Scale at A3

1:10,000

|           |                |
|-----------|----------------|
| Job No    | Drawing Status |
| 250122-01 | For Issue      |

|           |       |
|-----------|-------|
| Figure No | Issue |
| Figure 2  | P0    |



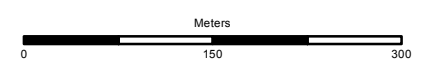


- Western Cross site boundary
- Line of cross-section
- < 0mOD
- 0 - 5mOD
- 5 - 10mOD
- 10 - 15mOD
- 15 - 20mOD
- 20 - 25mOD
- 25 - 30mOD
- 30 - 40mOD
- 40 - 50mOD
- 50 - 60mOD

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]  
[Current topography based on Tower Surveys drawings  
R-12155/201 to R-12155/205, Revision A dated  
December 2015]

|    |            |    |    |    |
|----|------------|----|----|----|
| P0 | 02/08/2016 | PR | VK | PM |
|----|------------|----|----|----|

|       |      |    |      |      |
|-------|------|----|------|------|
| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

**Existing topography (2016)  
and cross-section alignments**

Scale at A3  
**1:6,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                       |                    |
|-----------------------|--------------------|
| Figure No<br><b>3</b> | Issue<br><b>F0</b> |
|-----------------------|--------------------|



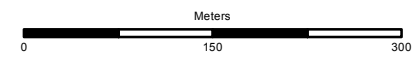


- Western Cross site boundary
- Walkover observation locations
- Walkover survey track

[Basemaps in this document were created using ArcGIS® software by Esri. ArcGIS® and ArcMap™ are the intellectual property of Esri and are used herein under license. Copyright © Esri. All rights reserved. For more information about Esri® software, please visit [www.esri.com](http://www.esri.com). Imagery from 10/01/2011]

|    |            |    |    |    |
|----|------------|----|----|----|
| P0 | 11/08/2016 | PR | VK | PM |
|----|------------|----|----|----|

|       |      |    |      |      |
|-------|------|----|------|------|
| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
[www.arup.com](http://www.arup.com)

Client

Henley Camland

Job Title

Eastern Quarry Stage 2 -  
Western Cross & Alkerden

Site walkover route  
and observation locations

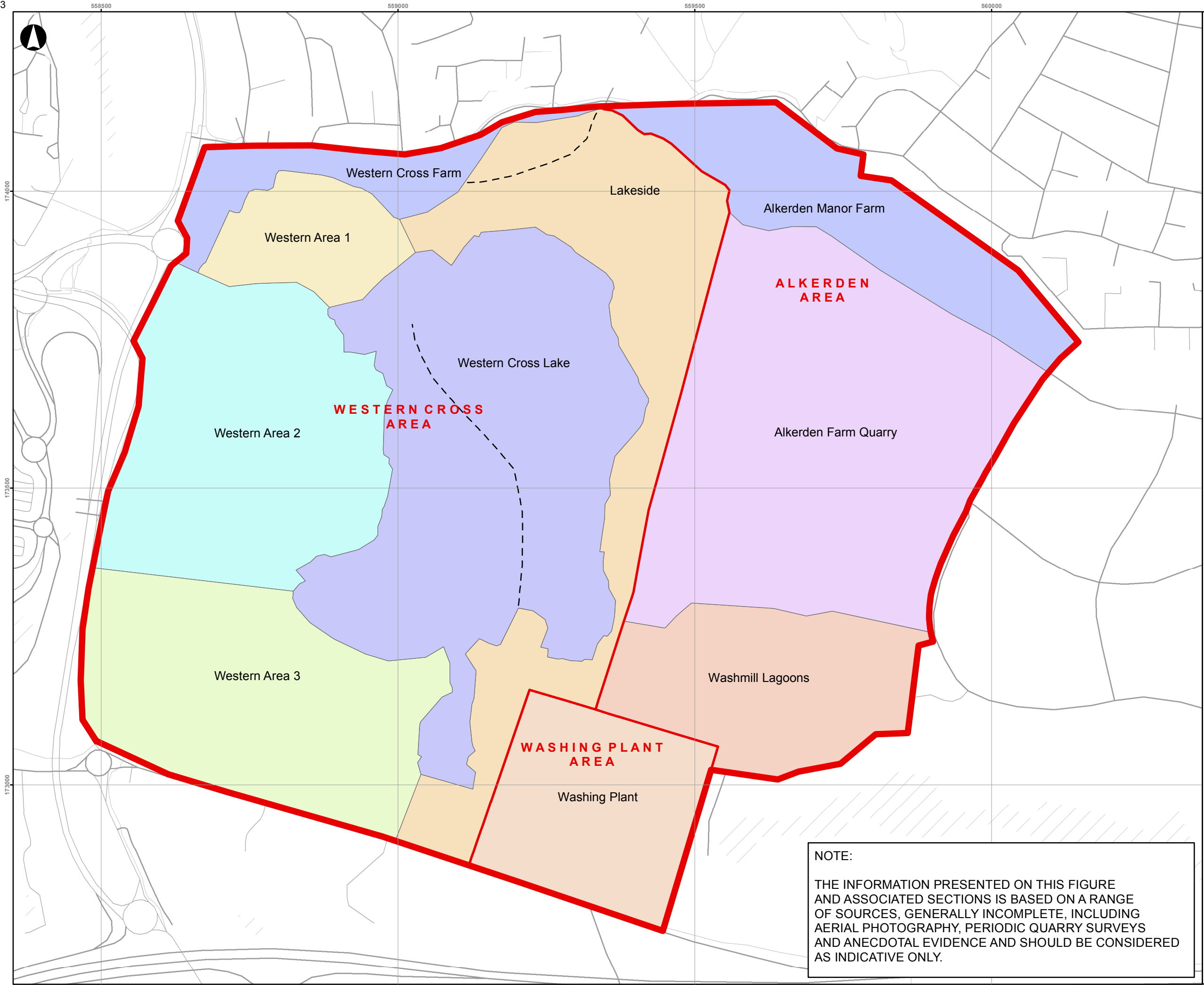
Scale at A3

1:6,000

|           |                |
|-----------|----------------|
| Job No    | Drawing Status |
| 250122-01 | For Issue      |

|           |       |
|-----------|-------|
| Figure No | Issue |
| Figure 4  | F0    |





Western Cross site boundary

2002

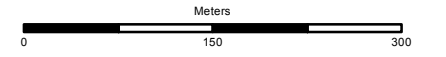
Area last excavated

(2003)

Area backfilled

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]

|       |            |    |      |      |
|-------|------------|----|------|------|
| P0    | 03/08/2016 | PR | VK   | PM   |
| Issue | Date       | By | Chkd | Appd |



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

Site zones

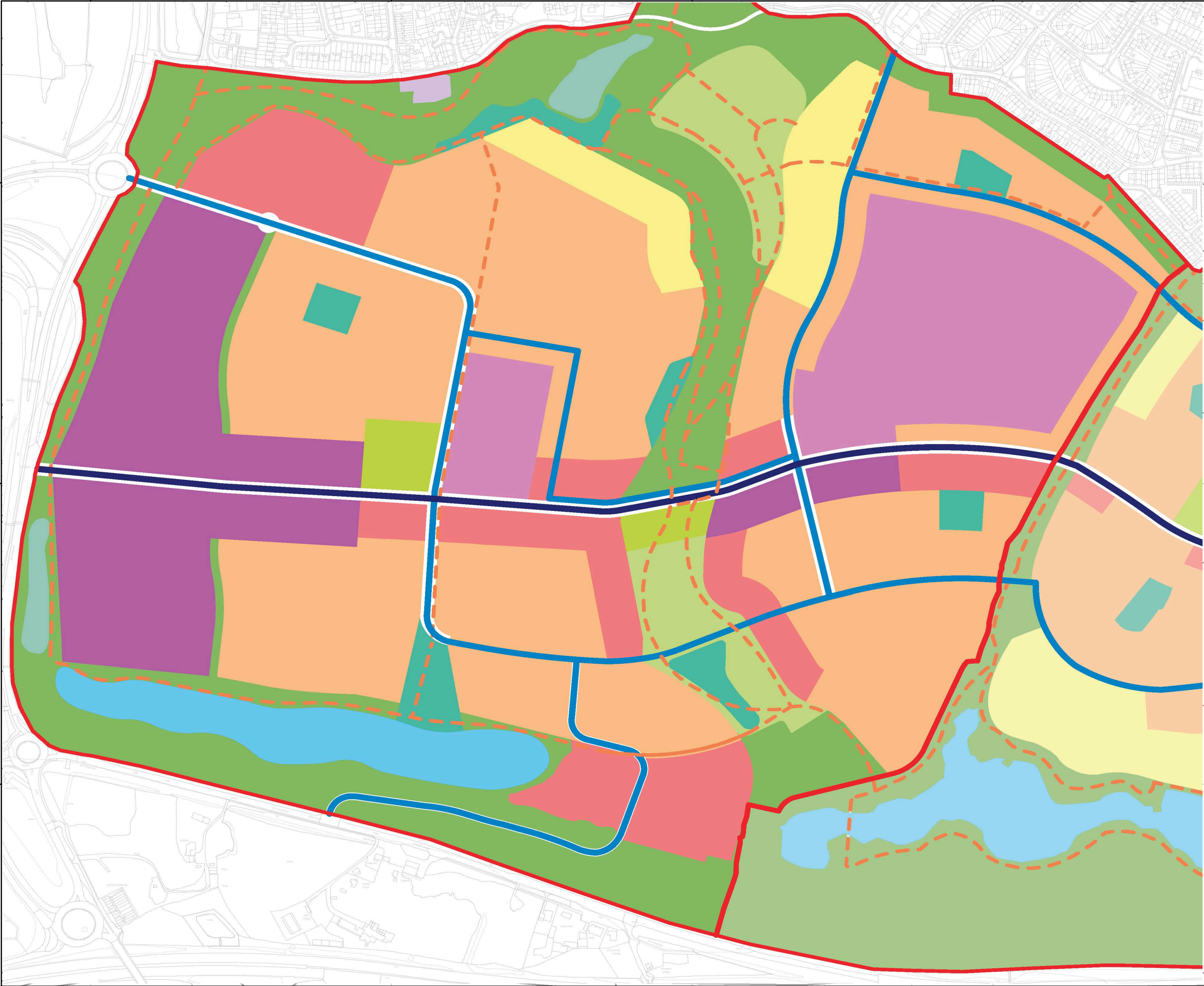
Scale at A3  
**1:6,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                              |                    |
|------------------------------|--------------------|
| Figure No<br><b>Figure 5</b> | Issue<br><b>F0</b> |
|------------------------------|--------------------|

NOTE:  
  
THE INFORMATION PRESENTED ON THIS FIGURE AND ASSOCIATED SECTIONS IS BASED ON A RANGE OF SOURCES, GENERALLY INCOMPLETE, INCLUDING AERIAL PHOTOGRAPHY, PERIODIC QUARRY SURVEYS AND ANECDOTAL EVIDENCE AND SHOULD BE CONSIDERED AS INDICATIVE ONLY.

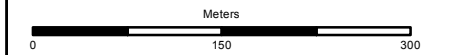




- Western Cross site boundary
- High Density Houses
- Lake
- Land Security Areas
- Low Density Houses
- Medium Density Houses
- Play Areas
- Public Open Space
- School
- Shopping Areas

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]  
[Proposed Masterplan based on work-in-progress  
draft received from THDA dated 15 July 2016]

|       |            |    |      |      |
|-------|------------|----|------|------|
| P0    | 21/09/2016 | AS | VK   | PM   |
| Issue | Date       | By | Chkd | Appd |



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

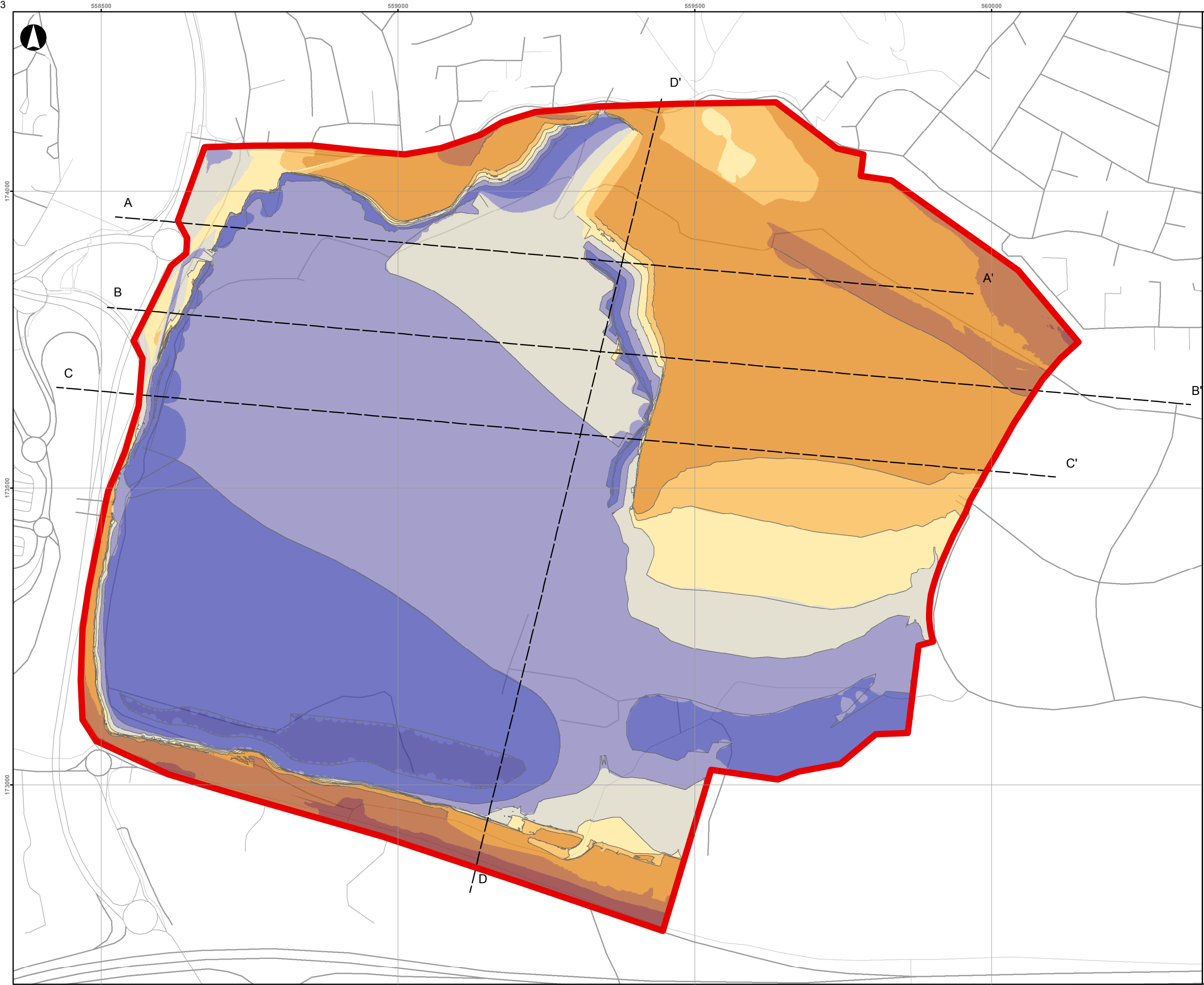
Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

**Outline development  
master-plan**

Scale at A3  
**1:6,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                              |                    |
|------------------------------|--------------------|
| Figure No<br><b>Figure 6</b> | Issue<br><b>F0</b> |
|------------------------------|--------------------|

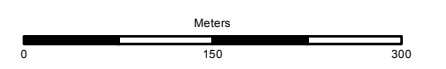


- Western Cross site boundary
- Line of cross-section
- < 0mOD
- 0 - 5mOD
- 5 - 10mOD
- 10 - 15mOD
- 15 - 20mOD
- 20 - 25mOD
- 25 - 30mOD
- 30 - 40mOD
- 40 - 50mOD
- 50 - 60mOD

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]  
[Proposed contours based on Contour Model 6 received  
from THDA dated 19 July 2016]

|    |            |    |    |    |
|----|------------|----|----|----|
| P0 | 02/08/2016 | PR | VK | PM |
|----|------------|----|----|----|

|       |      |    |      |      |
|-------|------|----|------|------|
| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

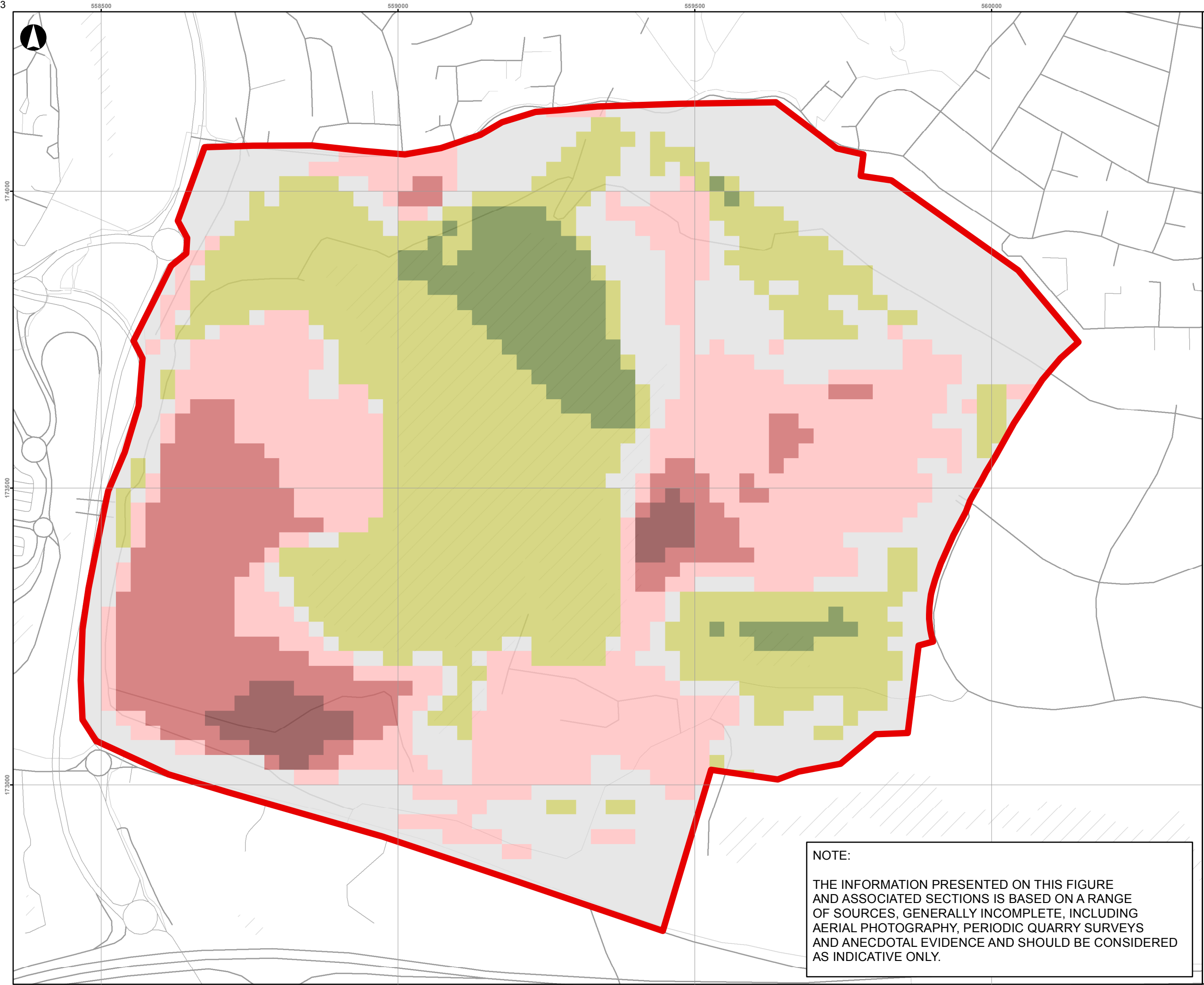
**Proposed contours**

Scale at A3  
**1:6,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                              |                    |
|------------------------------|--------------------|
| Figure No<br><b>Figure 7</b> | Issue<br><b>F0</b> |
|------------------------------|--------------------|



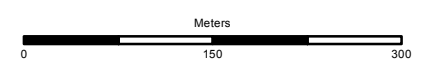


- Western Cross site boundary
- > 20m cut
- 10 - 20m cut
- 2 - 10m cut
- < 2m cut or fill
- 2 - 10m fill
- 10 - 20m fill
- > 20m fill

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]

|    |            |    |    |    |
|----|------------|----|----|----|
| P0 | 03/08/2016 | PR | VK | PM |
|----|------------|----|----|----|

|       |      |    |      |      |
|-------|------|----|------|------|
| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|



# ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

**Indicative proposed cut  
and fill zones**

Scale at A3  
**1:6,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

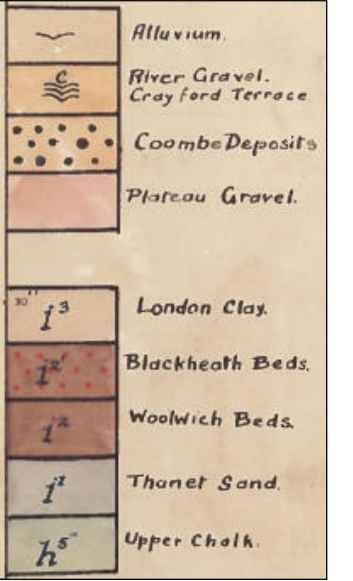
|                              |                    |
|------------------------------|--------------------|
| Figure No<br><b>Figure 8</b> | Issue<br><b>F0</b> |
|------------------------------|--------------------|

NOTE:  
  
THE INFORMATION PRESENTED ON THIS FIGURE  
AND ASSOCIATED SECTIONS IS BASED ON A RANGE  
OF SOURCES, GENERALLY INCOMPLETE, INCLUDING  
AERIAL PHOTOGRAPHY, PERIODIC QUARRY SURVEYS  
AND ANECDOTAL EVIDENCE AND SHOULD BE CONSIDERED  
AS INDICATIVE ONLY.



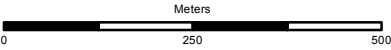


 Western Cross site boundary



[British Geological Survey (1977) Dartford, England and Wales Sheet 271. Drift Geology. 1:50,000. Keyworth, Nottingham. British Geological Survey]

|       |            |    |      |      |
|-------|------------|----|------|------|
| P0    | 02/08/2016 | PR | VK   | PM   |
| Issue | Date       | By | Chkd | Appd |



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client

Henley Camland

Job Title

Eastern Quarry Stage 2 -  
Western Cross & Alkerden

1910 Geological Map

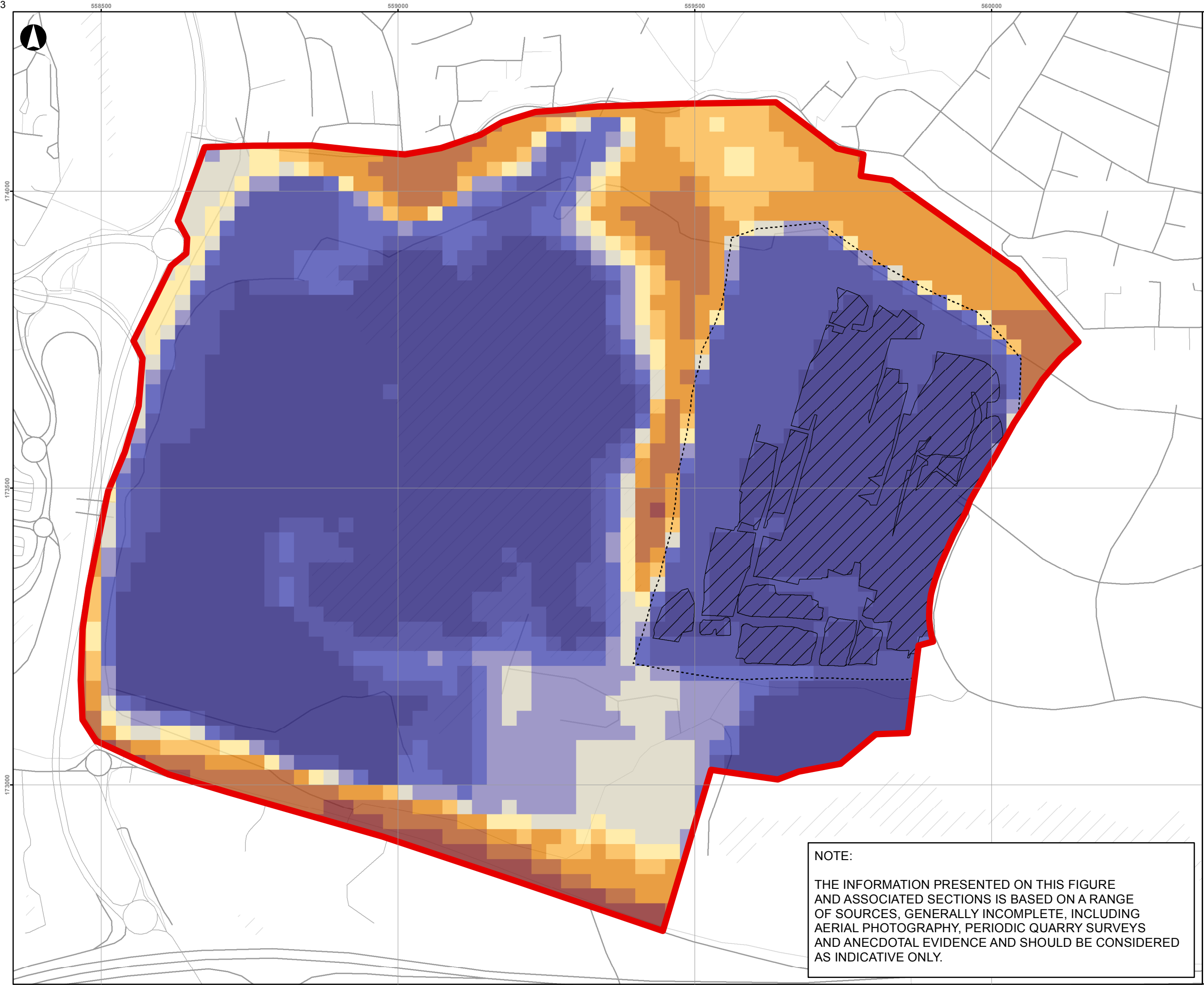
Scale at A3

1:10,000

|           |                |
|-----------|----------------|
| Job No    | Drawing Status |
| 250122-01 | For Issue      |

|           |       |
|-----------|-------|
| Figure No | Issue |
| Figure 9  | F0    |



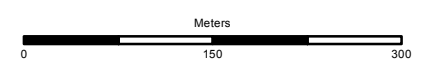


- Western Cross site boundary
- 'Deep dig' to -6.5mOD (1979)
- Excavated to approx. 5mOD (1979)
- < 0mOD
- 0 - 5mOD
- 5 - 10mOD
- 10 - 15mOD
- 15 - 20mOD
- 20 - 25mOD
- 25 - 30mOD
- 30 - 40mOD
- 40 - 50mOD
- 50 - 60mOD

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]

|    |            |    |    |    |
|----|------------|----|----|----|
| P0 | 03/08/2016 | PR | VK | PM |
|----|------------|----|----|----|

|       |      |    |      |      |
|-------|------|----|------|------|
| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

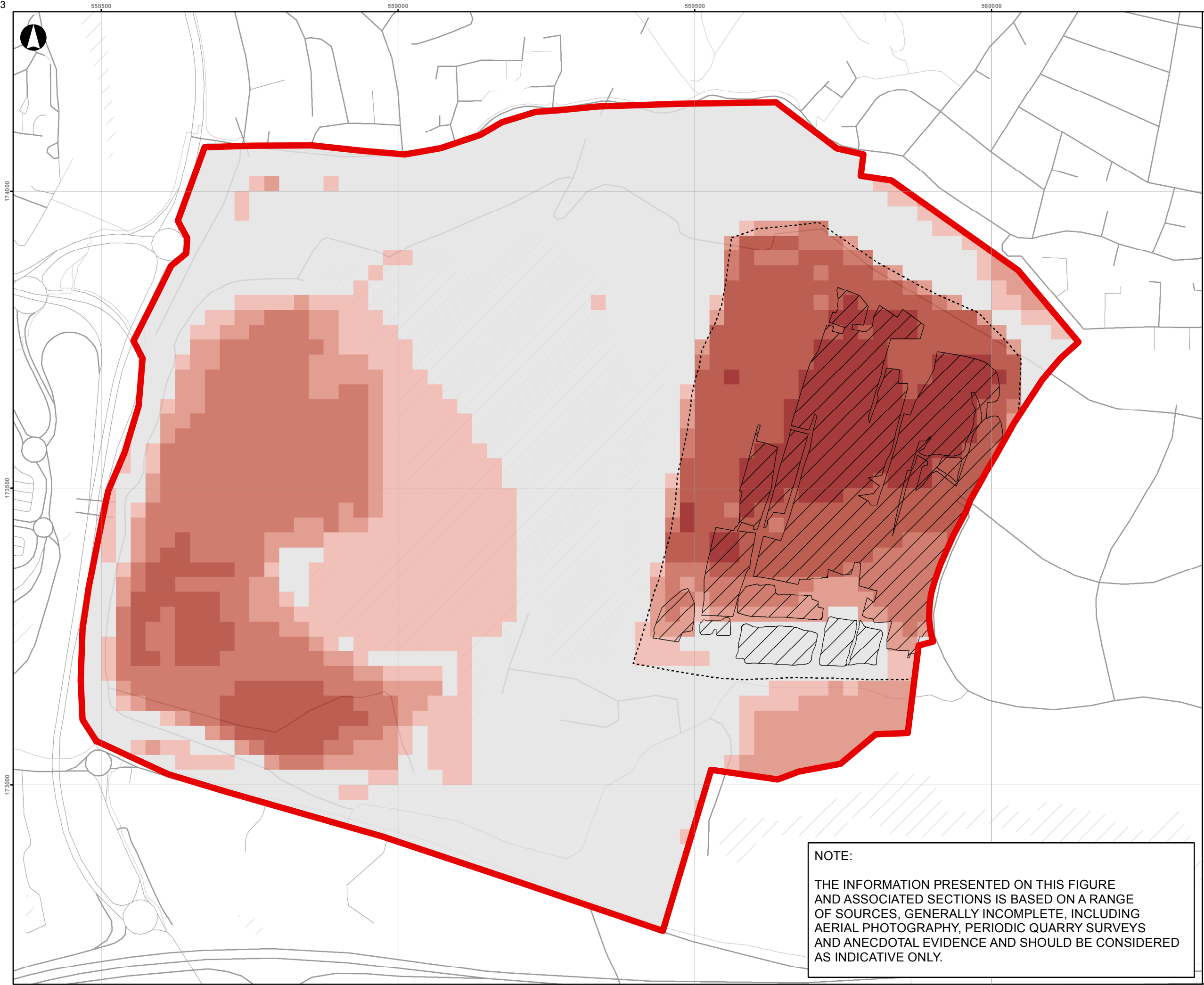
**Approximate lowest excavated  
level**

Scale at A3  
**1:6,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                               |                    |
|-------------------------------|--------------------|
| Figure No<br><b>Figure 10</b> | Issue<br><b>F0</b> |
|-------------------------------|--------------------|

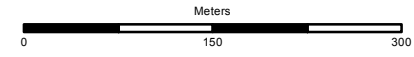
NOTE:  
  
THE INFORMATION PRESENTED ON THIS FIGURE  
AND ASSOCIATED SECTIONS IS BASED ON A RANGE  
OF SOURCES, GENERALLY INCOMPLETE, INCLUDING  
AERIAL PHOTOGRAPHY, PERIODIC QUARRY SURVEYS  
AND ANECDOTAL EVIDENCE AND SHOULD BE CONSIDERED  
AS INDICATIVE ONLY.



- Western Cross site boundary
- 'Deep dig' to -6.5mOD (1979)
- Excavated to approx. 5mOD (1979)
- < 5m fill
- 5 - 10m fill
- 10 - 20m fill
- 20 - 30m fill
- 30 - 40m fill
- > 40m fill

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]

|       |            |    |      |      |
|-------|------------|----|------|------|
| P0    | 04/08/2016 | PR | VK   | PM   |
| Issue | Date       | By | Chkd | Appd |



# ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

**Approximate fill thickness  
(2016 level - lowest  
excavated level)**

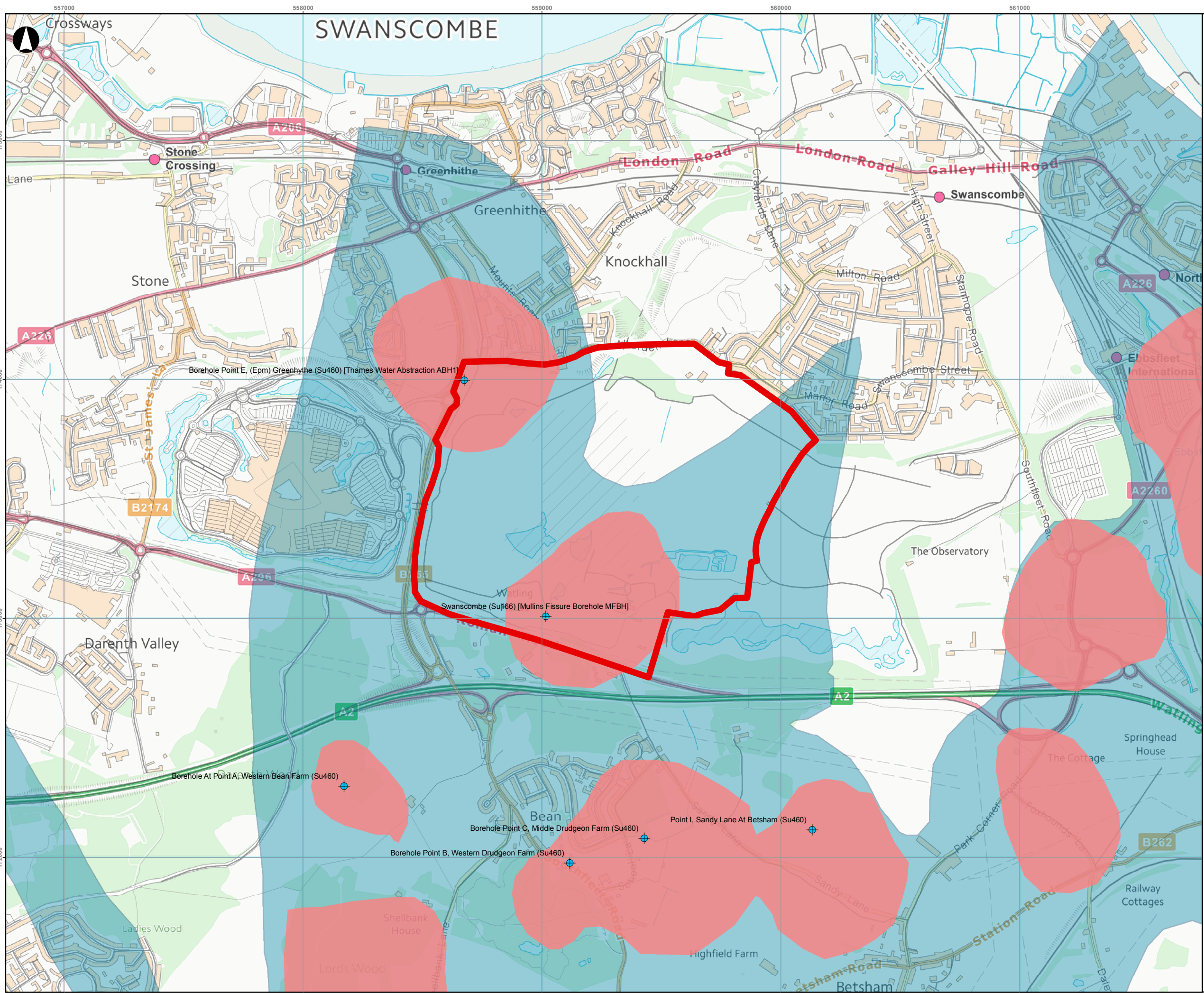
Scale at A3  
**1:6,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                               |                    |
|-------------------------------|--------------------|
| Figure No<br><b>Figure 11</b> | Issue<br><b>F0</b> |
|-------------------------------|--------------------|

NOTE:  
  
THE INFORMATION PRESENTED ON THIS FIGURE  
AND ASSOCIATED SECTIONS IS BASED ON A RANGE  
OF SOURCES, GENERALLY INCOMPLETE, INCLUDING  
AERIAL PHOTOGRAPHY, PERIODIC QUARRY SURVEYS  
AND ANECDOTAL EVIDENCE AND SHOULD BE CONSIDERED  
AS INDICATIVE ONLY.

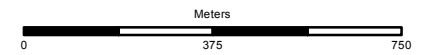




- Western Cross site boundary
- Envirocheck SPZ BH
- SPZ Inner Zone 1
- Outer zone (Zone 2)

[Underlying map linework from OpenStreetMap.  
© OpenStreetMap contributors 2016]  
[Basemap from OS VectorMap District. Contains OS  
data © Crown copyright and database right 2016]

|       |            |    |      |      |
|-------|------------|----|------|------|
| P0    | 12/08/2016 | PR | VK   | PM   |
| Issue | Date       | By | Chkd | Appd |



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

**Groundwater source  
protection zones**

Scale at A3  
**1:15,000**

|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                               |                    |
|-------------------------------|--------------------|
| Figure No<br><b>Figure 12</b> | Issue<br><b>F0</b> |
|-------------------------------|--------------------|



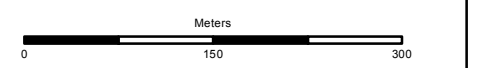


- orange stained stockpiles
- March 2002 Diesel Spill
- Road haulage yard
- Substations and transformers
- Potentially infilled ground
- Brick works
- Soil recycling facility
- Diesel tanks
- Washmill Lagoons
- Stockpiles
- SHP-agriculture
- Approximate site boundary

Notes:  
1. Water bodies shown hatched in blue.

|    |            |    |    |    |
|----|------------|----|----|----|
| F1 | 2016-08-16 | AJ | CB | CB |
|----|------------|----|----|----|

|       |      |    |      |      |
|-------|------|----|------|------|
| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|



ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

Potential sources of contamination

Scale at A3  
**1:6,000**

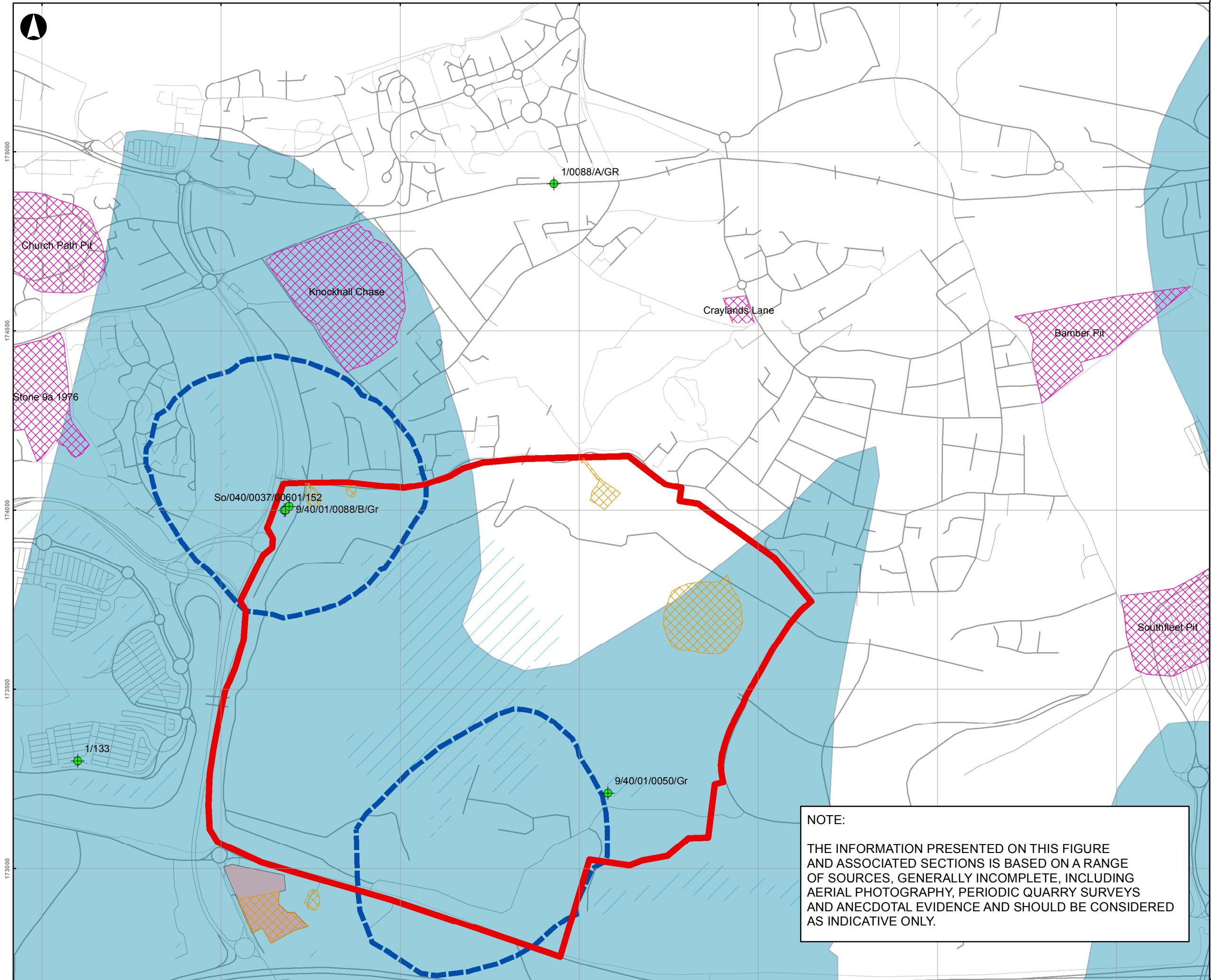
|                            |                                    |
|----------------------------|------------------------------------|
| Job No<br><b>250122-01</b> | Drawing Status<br><b>For Issue</b> |
|----------------------------|------------------------------------|

|                               |                    |
|-------------------------------|--------------------|
| Figure No<br><b>Figure 13</b> | Issue<br><b>F1</b> |
|-------------------------------|--------------------|

NOTE:  
THE INFORMATION PRESENTED ON THIS FIGURE AND ASSOCIATED SECTIONS IS BASED ON A RANGE OF SOURCES, GENERALLY INCOMPLETE, INCLUDING AERIAL PHOTOGRAPHY, PERIODIC QUARRY SURVEYS AND ANECDOTAL EVIDENCE AND SHOULD BE CONSIDERED AS INDICATIVE ONLY.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community





- Groundwater
- Potentially infilled ground
- Brick works
- Off-site landfills within 1km
- Approximate site boundary
- Groundwater Source Protection Zone Inner zone (Zone 1)
- Outer zone (Zone 2)

Notes:  
1. Water bodies shown hatched in blue.

|       |            |    |      |      |
|-------|------------|----|------|------|
| F1    | 2016-08-12 | AJ | CB   | CB   |
| Issue | Date       | By | Chkd | Appd |

Meters  
0 250 500

ARUP

13 Fitzroy Street  
London W1T 4BQ  
Tel +44 20 7636 1531 Fax +44 20 7580 3924  
www.arup.com

Client  
**Henley Camland**

Job Title  
**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

Landfills and groundwater setting

|                                |                                    |
|--------------------------------|------------------------------------|
| Scale at A3<br><b>1:10,000</b> |                                    |
| Job No<br><b>250122-01</b>     | Drawing Status<br><b>For Issue</b> |
| Figure No<br><b>Figure 14</b>  | Issue<br><b>F1</b>                 |

NOTE:  
  
THE INFORMATION PRESENTED ON THIS FIGURE AND ASSOCIATED SECTIONS IS BASED ON A RANGE OF SOURCES, GENERALLY INCOMPLETE, INCLUDING AERIAL PHOTOGRAPHY, PERIODIC QUARRY SURVEYS AND ANECDOTAL EVIDENCE AND SHOULD BE CONSIDERED AS INDICATIVE ONLY.









**Legend**

- Stockpile audit

Basemaps in this document were created using ArcGIS® software by Esri. ArcGIS® and ArcMap™ are the intellectual property of Esri and are used herein under license. Copyright © Esri. All rights reserved. For more information about Esri® software, please visit [www.esri.com](http://www.esri.com). Imagery from 1991/2011.

© Copyright Information

|    |            |    |    |    |
|----|------------|----|----|----|
| P1 | 07-09-2016 | CT | WK | PM |
|----|------------|----|----|----|

| Issue | Date | By | Chkd | Appd |
|-------|------|----|------|------|
|       |      |    |      |      |

0100000000

0

25

50

100

150

Meters

ARUP

13 Filicity Street,  
London W1T 4BQ  
Tel +44 (0) 20 7668 1551 Fax +44 (0) 20 7580 3924  
[www.arup.com](http://www.arup.com)

Client

**Henley Camland**

Job Title

**Eastern Quarry Stage 2 -  
Western Cross & Alkerden**

Proposed Stockpile  
Audit Locations

Scale at A1

**1:3,000**

|                  |                |
|------------------|----------------|
| Job No           | Drawing Status |
| <b>250122-02</b> | <b>Issue</b>   |
| Drawing No       | Issue          |
| <b>4</b>         | <b>P1</b>      |

© ARUP Location

© ARUP



## Appendix A

### Envirocheck Database Report and Historical Ordnance Survey Maps



## Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

### Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline) that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

### Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

### Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report



Envirocheck reports are compiled from 136 different sources of data.

## Client Details

Mir P Measham, Ove Arup & Partners International Ltd, 13  
Fitzroy Street, London, W1T 4BQ

## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 25012/00  
National Grid Reference: 559640, 173440  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

Full Terms and Conditions can be found on the following link:  
<http://www.landmarkinfo.co.uk/Terms/Show/515>



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

89304408\_1\_1

**Customer Reference:**

250122/00

**National Grid Reference:**

558920, 172840

**Slice:**

A

**Site Area (Ha):**

272.38

**Search Buffer (m):**

1000

#### Site Details:

Barton Wilmore, The Observatory  
Southfleet Road  
SWANSCOMBE  
Kent  
DA10 0DF

#### Client Details:

Mr P Measham  
Ove Arup & Partners International Ltd  
13 Fitzroy Street  
London  
W1T 4BQ



| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 21          |
| Hazardous Substances  | -           |
| Geological            | 22          |
| Industrial Land Use   | 38          |
| Sensitive Land Use    | 45          |
| Data Currency         | 47          |
| Data Suppliers        | 51          |
| Useful Contacts       | 52          |

#### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

#### Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

#### Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

#### Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact [mining.review@arup.com](mailto:mining.review@arup.com)). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

#### Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

#### Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

#### Report Version v50.0

| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                             |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     | Yes       | Yes         | n/a                         |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                             |
| Discharge Consents                                            | pg 5        | 2       |           |             | 1                           |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                         |
| Enforcement and Prohibition Notices                           |             |         |           |             |                             |
| Integrated Pollution Controls                                 |             |         |           |             |                             |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                             |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                             |
| Local Authority Pollution Prevention and Controls             | pg 6        |         | 2         |             |                             |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                             |
| Nearest Surface Water Feature                                 |             | Yes     |           |             |                             |
| Pollution Incidents to Controlled Waters                      | pg 6        |         | 1         | 2           |                             |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                             |
| Registered Radioactive Substances                             |             |         |           |             |                             |
| River Quality                                                 |             |         |           |             |                             |
| River Quality Biology Sampling Points                         |             |         |           |             |                             |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                             |
| Substantiated Pollution Incident Register                     | pg 6        | 1       |           | 1           | 1                           |
| Water Abstractions                                            | pg 7        | 8       |           | 1           | 16 (*19)                    |
| Water Industry Act Referrals                                  |             |         |           |             |                             |
| Groundwater Vulnerability                                     | pg 18       | Yes     | n/a       | n/a         | n/a                         |
| Drift Deposits                                                |             |         | n/a       | n/a         | n/a                         |
| Bedrock Aquifer Designations                                  | pg 18       | Yes     | n/a       | n/a         | n/a                         |
| Superficial Aquifer Designations                              | pg 19       | Yes     | n/a       | n/a         | n/a                         |
| Source Protection Zones                                       | pg 19       | 6       |           | 1           | 5                           |
| Extreme Flooding from Rivers or Sea without Defences          |             |         |           | n/a         | n/a                         |
| Flooding from Rivers or Sea without Defences                  |             |         |           | n/a         | n/a                         |
| Areas Benefiting from Flood Defences                          |             |         |           | n/a         | n/a                         |
| Flood Water Storage Areas                                     |             |         |           | n/a         | n/a                         |
| Flood Defences                                                |             |         |           | n/a         | n/a                         |
| Detailed River Network Lines                                  |             |         |           |             | n/a                         |
| Detailed River Network Offline Drainage                       | pg 20       | Yes     | Yes       | Yes         | n/a                         |



| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                             |
| BGS Recorded Landfill Sites                                         |             |         |           |             |                             |
| Historical Landfill Sites                                           | pg 21       | 1       |           |             |                             |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                             |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                             |
| Licensed Waste Management Facilities (Locations)                    | pg 21       | 1       | 2         |             |                             |
| Local Authority Landfill Coverage                                   | pg 21       | 2       | n/a       | n/a         | n/a                         |
| Local Authority Recorded Landfill Sites                             |             |         |           |             |                             |
| Registered Landfill Sites                                           |             |         |           |             |                             |
| Registered Waste Transfer Sites                                     |             |         |           |             |                             |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                             |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                             |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                             |
| Explosive Sites                                                     |             |         |           |             |                             |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                             |
| Planning Hazardous Substance Consents                               |             |         |           |             |                             |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                             |
| <b>Geological</b>                                                   |             |         |           |             |                             |
| BGS 1:625,000 Solid Geology                                         | pg 22       | Yes     | n/a       | n/a         | n/a                         |
| BGS Recorded Mineral Sites                                          | pg 22       | 10      | 4         | 4           | 7                           |
| Brine Compensation Area                                             |             |         | n/a       | n/a         | n/a                         |
| Coal Mining Affected Areas                                          |             |         | n/a       | n/a         | n/a                         |
| Mining Instability                                                  | pg 26       | Yes     | n/a       | n/a         | n/a                         |
| Man-Made Mining Cavities                                            | pg 26       | 4       |           | 2           | 5                           |
| Natural Cavities                                                    | pg 28       | 1       | 2         | 1           | 2                           |
| Non Coal Mining Areas of Great Britain                              | pg 29       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Collapsible Ground Stability Hazards                  | pg 29       | Yes     |           | n/a         | n/a                         |
| Potential for Compressible Ground Stability Hazards                 | pg 29       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Ground Dissolution Stability Hazards                  | pg 30       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Landslide Ground Stability Hazards                    | pg 32       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Running Sand Ground Stability Hazards                 | pg 34       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 36       | Yes     | Yes       | n/a         | n/a                         |
| Radon Potential - Radon Affected Areas                              | pg 37       | Yes     | n/a       | n/a         | n/a                         |
| Radon Potential - Radon Protection Measures                         |             |         | n/a       | n/a         | n/a                         |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                                |
| Contemporary Trade Directory Entries | pg 38       | 1       | 4         | 11          | 12                             |
| Fuel Station Entries                 |             |         |           |             |                                |
| Gas Pipelines                        |             |         |           |             |                                |
| Underground Electrical Cables        | pg 40       | 32      | 2         | 5           | 5                              |
| <b>Sensitive Land Use</b>            |             |         |           |             |                                |
| Ancient Woodland                     | pg 45       |         | 4         | 3           | 2                              |
| Areas of Adopted Green Belt          |             |         |           |             |                                |
| Areas of Unadopted Green Belt        | pg 45       |         | 1         |             |                                |
| Areas of Outstanding Natural Beauty  |             |         |           |             |                                |
| Environmentally Sensitive Areas      |             |         |           |             |                                |
| Forest Parks                         |             |         |           |             |                                |
| Local Nature Reserves                |             |         |           |             |                                |
| Marine Nature Reserves               |             |         |           |             |                                |
| National Nature Reserves             | pg 45       |         | 1         |             |                                |
| National Parks                       |             |         |           |             |                                |
| Nitrate Sensitive Areas              |             |         |           |             |                                |
| Nitrate Vulnerable Zones             | pg 45       | 1       |           |             |                                |
| Ramsar Sites                         |             |         |           |             |                                |
| Sites of Special Scientific Interest | pg 46       |         | 1         | 1           |                                |
| Special Areas of Conservation        |             |         |           |             |                                |
| Special Protection Areas             |             |         |           |             |                                |
| World Heritage Sites                 |             |         |           |             |                                |



| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14NE (NW)                             | 0                            | 1       | 558600 173500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 0                            | 1       | 559400 174300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A15SW (N)                              | 0                            | 1       | 558850 173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (E)                                    | 0                            | 1       | 560500 172900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (E)                                    | 0                            | 1       | 560150 172841 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A15NW (N)                              | 0                            | 1       | 558919 173700 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 0                            | 1       | 559350 174400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (N)                                    | 0                            | 1       | 559450 174400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A10NE (NW)                             | 0                            | 1       | 558700 173050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A10NE (NW)                             | 0                            | 1       | 558750 173050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 559350 174200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 558700 173800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 558919 173800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 0                            | 1       | 558950 173800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14SE (NW)                             | 0                            | 1       | 558550 173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A15SW (N)                              | 0                            | 1       | 558900 173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12NW (E)                              | 0                            | 1       | 559550 173050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A15SW (N)                              | 0                            | 1       | 558950 173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A15SW (N)                              | 0                            | 1       | 559000 173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A16SW (E)                              | 0                            | 1       | 559700 173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (E)                                    | 0                            | 1       | 560150 173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A16SE (E)                              | 0                            | 1       | 560050 173200 |

| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A15NW (N)                              | 0                            | 1       | 558900 173450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (E)                                    | 0                            | 1       | 560400 172800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A12NW (E)                              | 0                            | 1       | 559500 172850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A12NE (E)                              | 0                            | 1       | 560000 172850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (E)                                    | 0                            | 1       | 560250 173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (E)                                    | 0                            | 1       | 560400 173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A11NW (N)                              | 0                            | 1       | 558900 173000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A11NW (N)                              | 0                            | 1       | 558919 173000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A11NW (NE)                             | 0                            | 1       | 559000 173000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12NW (E)                              | 0                            | 1       | 559500 173000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (E)                                    | 0                            | 1       | 560450 173000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 559300 174050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 558750 173900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 0                            | 1       | 558950 173900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 559000 173900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 559150 173900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 559450 174350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 0                            | 1       | 559350 174250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14NE (NW)                             | 0                            | 1       | 558600 173550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14NE (N)                              | 0                            | 1       | 558650 173650 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A15NW (N)                              | 0                            | 1       | 558900 173650 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (N)                                    | 0                            | 1       | 558750 173750 |



| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SE (NW)                             | 0                            | 1       | 558550 173350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14SE (NW)                             | 0                            | 1       | 558600 173350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (N)                                    | 0                            | 1       | 559250 174000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 0                            | 1       | 559000 173850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 559100 173850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14SE (NW)                             | 0                            | 1       | 558600 173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A15SW (NE)                             | 0                            | 1       | 559050 173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A16SW (NE)                             | 0                            | 1       | 559450 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A16SW (E)                              | 0                            | 1       | 559600 173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A16SW (E)                              | 0                            | 1       | 559650 173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SE (NW)                             | 0                            | 1       | 558550 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A15SW (N)                              | 0                            | 1       | 558919 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A15SW (N)                              | 0                            | 1       | 558950 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A16SW (NE)                             | 0                            | 1       | 559550 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A16SW (NE)                             | 0                            | 1       | 559700 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A16SW (NE)                             | 0                            | 1       | 559750 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A16SE (E)                              | 0                            | 1       | 559800 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (E)                                    | 0                            | 1       | 560250 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14NE (N)                              | 0                            | 1       | 558700 173500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A15NW (N)                              | 0                            | 1       | 558850 173500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A15NW (N)                              | 0                            | 1       | 558850 173600 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 0                            | 1       | 558800 173950 |

| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (N)                                    | 0                            | 1       | 558900<br>173950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A11NW<br>(NW)                          | 0                            | 1       | 558919<br>172841 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A12NE<br>(E)                           | 0                            | 1       | 560000<br>172841 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SE<br>(NW)                          | 34                           | 1       | 558450<br>173350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14SW<br>(NW)                          | 43                           | 1       | 558400<br>173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14NE<br>(NW)                          | 53                           | 1       | 558450<br>173450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SW<br>(NW)                          | 70                           | 1       | 558400<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14SW<br>(NW)                          | 72                           | 1       | 558400<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SW<br>(NW)                          | 120                          | 1       | 558350<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14SW<br>(NW)                          | 120                          | 1       | 558350<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A11SE<br>(SE)                          | 178                          | 1       | 559200<br>172600 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SW<br>(NW)                          | 183                          | 1       | 558300<br>173350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SW<br>(NW)                          | 221                          | 1       | 558250<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SW<br>(NW)                          | 227                          | 1       | 558250<br>173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 228                          | 1       | 558650<br>174300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A12SE<br>(SE)                          | 234                          | 1       | 559850<br>172450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 248                          | 1       | 558500<br>174250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (N)                                    | 286                          | 1       | 558600<br>174350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SW<br>(NW)                          | 288                          | 1       | 558200<br>173400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A12SW<br>(SE)                          | 303                          | 1       | 559600<br>172400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14SW<br>(NW)                          | 320                          | 1       | 558150<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (NW)                                   | 324                          | 1       | 558250<br>173850 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A8NE (SE)                              | 335                          | 1       | 559950 172350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A14NW (NW)                             | 347                          | 1       | 558150 173450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A14SW (NW)                             | 371                          | 1       | 558100 173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (NW)                                   | 371                          | 1       | 558200 173850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (NW)                                   | 388                          | 1       | 558200 173900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (NW)                                   | 435                          | 1       | 558150 173900 |
| 1      | <b>Discharge Consents</b><br>Operator: Lafarge Cement Uk Plc<br>Property Type: Manufacture Of Cement, Lime Plaster<br>Location: Lafarge Cement Uk, Northfleet Quarry, Bean, Dartford, Kent<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P10782<br>Permit Version: 1<br>Effective Date: 15th November 2002<br>Issued Date: 15th November 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Lake/Reservoir - with outlet<br>Environment:<br>Receiving Water: Lake/Reservoir Etc, With Outle<br><b>Status:</b> Pre National Rivers Authority Legislation where issue date < 01/09/1989<br>Positional Accuracy: Located by supplier to within 10m | A16SW (NE)                             | 0                            | 2       | 559580 173250 |
| 1      | <b>Discharge Consents</b><br>Operator: Lafarge Cement Uk Plc<br>Property Type: Industrial Parks & Estates<br>Location: Lafarge Cement Uk, Northfleet Quarry, Bean, Dartford, Kent<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P10783<br>Permit Version: 1<br>Effective Date: 15th November 2002<br>Issued Date: 15th November 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Lake/Reservoir - with outlet<br>Environment:<br>Receiving Water: Lake/Reservoir Etc, With Outle<br><b>Status:</b> Pre National Rivers Authority Legislation where issue date < 01/09/1989<br>Positional Accuracy: Located by supplier to within 10m          | A16SW (NE)                             | 0                            | 2       | 559580 173250 |
| 2      | <b>Discharge Consents</b><br>Operator: Blueco Ltd<br>Property Type: Industrial Parks & Estates<br>Location: Bluewater Park Lake 4c, Blue Circle Western Quarry, Greenhithe, Kent<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P05902<br>Permit Version: 1<br>Effective Date: 5th January 1996<br>Issued Date: 5th January 1996<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent Discharge-Site Drainage<br>Discharge: Lake/Reservoir - with outlet<br>Environment:<br>Receiving Water: Lake/Reservoir Etc, With Outle<br><b>Status:</b> New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)<br>Positional Accuracy: Located by supplier to within 10m           | A13SW (W)                              | 875                          | 2       | 557600 173320 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 3      | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Forestrall Ltd<br>Location: The Old Wood Yard, Watling Street, Bean, Kent, DA2 8AH<br>Authority: Dartford Borough Council, Environmental Health Department<br>Permit Reference: B05<br>Dated: 7th March 2002<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/8 Wood combustion processes between 0.4 and 3MW net rated thermal input<br><b>Status:</b> <b>Authorisation revoked</b><br>Positional Accuracy: Manually positioned to the address or location                               | A11NE (E)                              | 51                           | 3       | 559249 172774 |
| 4      | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Ocl Regeneration Ltd<br>Location: Washmill Recycling Centre, Eastern Quarry, Bean, Dartford, Da2 8ah<br>Authority: Dartford Borough Council, Environmental Health Department<br>Permit Reference: EP/CC/007<br>Dated: 10th February 2014<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: Mineral Industries: Cement & Lime Manufacture and associated processes<br><b>Status:</b> <b>Permitted</b><br>Positional Accuracy: Located by supplier to within 10m                      | A11NW (E)                              | 58                           | 3       | 559006 172852 |
|        | <b>Nearest Surface Water Feature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A16SW (NE)                             | 0                            | -       | 559457 173091 |
| 5      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Demolition<br>Location: Location Description Not Available<br>Authority: Environment Agency, Southern Region<br>Pollutant: Sewage - Septic Tank Effluent<br>Note: Sewage Leak At Merry Cafe<br>Incident Date: 4th November 1998<br>Incident Reference: 198358<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Overfilling During Delivery<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                             | A10NE (W)                              | 68                           | 2       | 558500 173000 |
| 6      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Transport, Storage, Communications<br>Location: Bean, DARTFORD<br>Authority: Environment Agency, Southern Region<br>Pollutant: Organic Chemicals : Pesticides<br>Note: Not Supplied<br>Incident Date: 13th January 1999<br>Incident Reference: 1656<br>Catchment Area: Darent<br>Receiving Water: Potential River<br>Cause of Incident: Containment Failure : Other Containment Failure<br>Incident Severity: Category 1 - Major Incident<br>Positional Accuracy: Approximate location provided by supplier         | A10SE (SW)                             | 384                          | 2       | 558700 172600 |
| 7      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Recreation & Sporting<br>Location: Bluewater Park, DARTFORD<br>Authority: Environment Agency, Southern Region<br>Pollutant: Inorganic Chemicals : Soluble Anti-freeze Compounds<br>Note: Not Supplied<br>Incident Date: 2nd December 1999<br>Incident Reference: 3746<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Structural Failure : Pipe Failure (Above Ground)<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m | A13SE (NW)                             | 437                          | 2       | 558050 173400 |
| 8      | <b>Substantiated Pollution Incident Register</b><br>Authority: Environment Agency - Southern Region, Kent and East Sussex<br>Incident Date: 4th March 2002<br>Incident Reference: 61600<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 3 - Minor Incident<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Oils - Diesel (Including Agricultural)                                                                                                                                | A15SE (NE)                             | 0                            | 2       | 559390 173085 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 9      | <b>Substantiated Pollution Incident Register</b><br>Authority: Environment Agency - Southern Region, Kent and East Sussex<br>Incident Date: 15th March 2004<br>Incident Reference: 223161<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Inert : Construction / Demolition Material                                                                                                                                                                                                                                              | A12SW (SE)                             | 337                          | 2       | 559484 172399 |
| 10     | <b>Substantiated Pollution Incident Register</b><br>Authority: Environment Agency - Southern Region, Kent and East Sussex<br>Incident Date: 9th July 2004<br>Incident Reference: 250052<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: General Biodegradable : Animal / Vegetable Oils<br>Pollutant: Other Pollutant                                                                                                                                                                                                             | A13NE (NW)                             | 769                          | 2       | 557761 173661 |
| 11     | <b>Water Abstractions</b><br>Operator: L S Eastern Quarry Limited<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 104<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: Process Water<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 9th October 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | A16SW (NE)                             | 0                            | 2       | 559580 173210 |
| 11     | <b>Water Abstractions</b><br>Operator: L S Eastern Quarry Limited<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 104<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: General Use (Medium Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 9th October 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (NE)                             | 0                            | 2       | 559580 173210 |
| 11     | <b>Water Abstractions</b><br>Operator: Lafarge Cement Uk Plc<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 103<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: Process Water<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2007<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m       | A16SW (NE)                             | 0                            | 2       | 559580 173210 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 11     | <b>Water Abstractions</b><br>Operator: Lafarge Cement Uk Plc<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 103<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: General Use (Medium Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2007<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m     | A16SW (NE)                             | 0                            | 2       | 559580 173210 |
| 11     | <b>Water Abstractions</b><br>Operator: Blue Circle Industries Plc<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 102<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: General Use (Medium Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 30th October 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (NE)                             | 0                            | 2       | 559580 173210 |
| 11     | <b>Water Abstractions</b><br>Operator: Blue Circle Industries Plc<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 102<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: Process Water<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 30th October 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | A16SW (NE)                             | 0                            | 2       | 559580 173210 |
| 11     | <b>Water Abstractions</b><br>Operator: Blue Circle Industries Plc<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 101<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: General Use (Medium Loss)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 25th August 1999<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A16SW (NE)                             | 0                            | 2       | 559580 173210 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 11     | <b>Water Abstractions</b><br>Operator: Blue Circle Industries Plc<br>Licence Number: 9/40/01/0050/Gr<br>Permit Version: 101<br>Location: Point A At Eastern Quarry Swanscombe<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: Process Water<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 25th August 1999<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A16SW (NE)                             | 0                            | 2       | 559580 173210 |
| 12     | <b>Water Abstractions</b><br>Operator: O'Rourke Civil Engineering Limited<br>Licence Number: 1/133<br>Permit Version: Not Supplied<br>Location: Bluewater Park Development, GREENHITHE<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Industrial<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 90<br>Yearly Rate (m3): 20000<br>Details: Chalk Underground Strata<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                            | A14SW (NW)                             | 376                          | 2       | 558100 173300 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Borehole Point C1, Middle Drudgeon Farm (Abh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A7NE (SE)                              | 660                          | 2       | 559430 172080 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Borehole Point C2, Middle Drudgeon Farm (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A7NE (SE)                              | 660                          | 2       | 559430 172080 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Borehole Point C1, Middle Drudgeon Farm (Abh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A7NE (SE)                              | 660                          | 2       | 559430 172080 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Borehole Point C2, Middle Drudgeon Farm (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A7NE (SE)                              | 660                          | 2       | 559430 172080 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 2<br>Location: Borehole Point C1, Middle Drudgeon Farm (Abh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | A7NE (SE)                              | 660                          | 2       | 559430 172080 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 2<br>Location: Borehole Point C2, Middle Drudgeon Farm (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | A7NE (SE)                              | 660                          | 2       | 559430 172080 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 1<br>Location: Borehole Point C1, Middle Drudgeon Farm (Abh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st October 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A7NE (SE)                              | 660                          | 2       | 559430 172080 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 1<br>Location: Borehole Point C2, Middle Drudgeon Farm (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st October 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A7NE (SE)                              | 660                          | 2       | 559430 172080 |
| 14     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Borehole Point B, Western Drudgeon Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m       | A7SE (S)                               | 839                          | 2       | 559120 171980 |
| 14     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Borehole Point B, Western Drudgeon Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m      | A7SE (S)                               | 839                          | 2       | 559120 171980 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 14     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 2<br>Location: Borehole Point B, Western Drudgeon Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m   | A7SE (S)                               | 839                          | 2       | 559120 171980 |
| 14     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 1<br>Location: Borehole Point B, Western Drudgeon Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st October 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A7SE (S)                               | 839                          | 2       | 559120 171980 |
| 15     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Borehole At Point A, Western Bean Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A6NW (SW)                              | 842                          | 2       | 558170 172300 |
| 15     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Borehole At Point A, Western Bean Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A6NW (SW)                              | 842                          | 2       | 558170 172300 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 15     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 2<br>Location: Borehole At Point A, Western Bean Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                              | A6NW (SW)                              | 842                          | 2       | 558170 172300 |
| 15     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 1<br>Location: Borehole At Point A, Western Bean Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st October 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                            | A6NW (SW)                              | 842                          | 2       | 558170 172300 |
|        | <b>Water Abstractions</b><br>Operator: Bluewater Outer Area Limited<br>Licence Number: 37/099<br>Permit Version: 102<br>Location: Unlined Chalk Lake At Bluewater Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Business Parks: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined On Licene Map<br>Authorised Start: 01 April<br>Authorised End: 31 August<br>Permit Start Date: 19th December 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                          | A13NW (NW)                             | 1041                         | 2       | 557450 173470 |
|        | <b>Water Abstractions</b><br>Operator: Bluewater Outer Area Limited<br>Licence Number: 37/099<br>Permit Version: 102<br>Location: Unlined Chalk Lake At Bluewater Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Private Non-Industrial Amenity: Lake And Pond Throughflow<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On The Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 19th December 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (NW)                             | 1041                         | 2       | 557450 173470 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Water Abstractions</b><br>Operator: Lend Lease Projects Ltd<br>Licence Number: 37/099<br>Permit Version: 101<br>Location: Unlined Chalk Lake At Bluewater Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Business Parks: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined On Licene Map<br>Authorised Start: 01 April<br>Authorised End: 31 August<br>Permit Start Date: 31st October 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                          | A13NW (NW)                             | 1041                         | 2       | 557450 173470 |
|        | <b>Water Abstractions</b><br>Operator: Lend Lease Projects Ltd<br>Licence Number: 37/099<br>Permit Version: 101<br>Location: Unlined Chalk Lake At Bluewater Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Private Non-Industrial Amenity: Lake And Pond Throughflow<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On The Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 31st October 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (NW)                             | 1041                         | 2       | 557450 173470 |
|        | <b>Water Abstractions</b><br>Operator: Lend Lease Projects Ltd<br>Licence Number: 37/099<br>Permit Version: 100<br>Location: Unlined Chalk Lake At Bluewater Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Private Non-Industrial Amenity: Lake And Pond Throughflow<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On The Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 7th July 1997<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m    | A13NW (NW)                             | 1041                         | 2       | 557450 173470 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Borehole Point D2, Western Beacon Wood (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                | A6SE (S)                               | 1215                         | 2       | 558620 171760 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Borehole Point D2, Western Beacon Wood (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A6SE (S)                               | 1215                         | 2       | 558620 171760 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 2<br>Location: Borehole Point D2, Western Beacon Wood (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | A6SE (S)                               | 1215                         | 2       | 558620 171760 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 1<br>Location: Borehole Point D2, Western Beacon Wood (Ebh)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st October 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A6SE (S)                               | 1215                         | 2       | 558620 171760 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Borehole Point D1, Western Beacon Wood Abh<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | A6SE (S)                               | 1225                         | 2       | 558620 171750 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Borehole Point D1, Western Beacon Wood Abh<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A6SE (S)                               | 1225                         | 2       | 558620 171750 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 2<br>Location: Borehole Point D1, Western Beacon Wood Abh<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | A6SE (S)                               | 1225                         | 2       | 558620 171750 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 1<br>Location: Borehole Point D1, Western Beacon Wood Abh<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st October 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A6SE (S)                               | 1225                         | 2       | 558620 171750 |
|        | <b>Water Abstractions</b><br>Operator: Dartford & Gravesham Nhs Trust<br>Licence Number: 37/096<br>Permit Version: Not Supplied<br>Location: Darenth Park Hospital<br>Authority: Environment Agency, Southern Region<br>Abstraction: Private Water Undertaking<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 833<br>Yearly Rate (m3): 30000<br>Details: H5 Chalk<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                                      | (W)                                    | 1356                         | 2       | 557160 172800 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Water Abstractions</b><br>Operator: Dartford & Gravesham Nhs Trust<br>Licence Number: 37/096<br>Permit Version: Not Supplied<br>Location: Darenth Park Hospital<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Industrial<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 833<br>Yearly Rate (m3): 50000<br>Details: H5 Chalk<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                                   | (W)                                    | 1357                         | 2       | 557160<br>172795 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Point H Highcross At Beacon Wood<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A3SE (S)                               | 1508                         | 2       | 559390<br>171220 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Point H Highcross At Beacon Wood<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A3SE (S)                               | 1508                         | 2       | 559390<br>171220 |
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Point J Westwood Road At Betsham<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A4SE (SE)                              | 1576                         | 2       | 560050<br>171110 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Point J Westwood Road At Betsham<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A4SE (SE)                              | 1576                         | 2       | 560050 171110 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Not classified<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A16NW (NE)                             | 0                            | 2       | 559533 173437 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                             | A11NW (SE)                             | 0                            | 2       | 558930 172819 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                       | A11NW (N)                              | 0                            | 2       | 558971 173054 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                             | A11NW (NW)                             | 0                            | 2       | 558919 172841 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                       | (NE)                                   | 0                            | 2       | 559814 173850 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                       | (N)                                    | 0                            | 2       | 558965 174022 |
|        | <b>Drift Deposits</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                              |         |               |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A11NW (W)                              | 0                            | 1       | 558799 172802 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (NE)                                   | 0                            | 1       | 560000 174452 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A12NE (E)                              | 0                            | 1       | 560000 172841 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (N)                                    | 0                            | 1       | 559015 174003 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A12NE (E)                              | 0                            | 1       | 560000 172828 |



| Map ID | Details                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Unproductive Strata                                                                                                                                                                  | A12NW (E)                              | 0                            | 1       | 559765<br>172756 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Unproductive Strata                                                                                                                                                                  | A12NE (E)                              | 0                            | 1       | 560000<br>172772 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | A11NW (SW)                             | 0                            | 1       | 558812<br>172791 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                            | A11NW (NW)                             | 0                            | 1       | 558919<br>172841 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | A14NE (NW)                             | 0                            | 1       | 558438<br>173667 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | A12SE (E)                              | 0                            | 1       | 560003<br>172612 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | A14SE (NW)                             | 0                            | 1       | 558490<br>173168 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | (E)                                    | 0                            | 1       | 560562<br>173188 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | A11NW (NE)                             | 0                            | 1       | 559071<br>172959 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | (NE)                                   | 0                            | 1       | 560714<br>173609 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | (N)                                    | 0                            | 1       | 559092<br>174050 |
| 16     | <b>Source Protection Zones</b><br>Name: Borehole Point E, (Epm) Greenhythe<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.     | A14NE (N)                              | 0                            | 2       | 558761<br>173715 |
| 17     | <b>Source Protection Zones</b><br>Name: Borehole Point E, (Epm) Greenhythe<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source                                                                            | (N)                                    | 0                            | 2       | 558680<br>174000 |
| 18     | <b>Source Protection Zones</b><br>Name: Swanscombe<br>Source: Environment Agency, Head Office<br>Reference: Su166<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.                             | A11NW (NW)                             | 0                            | 2       | 558919<br>172841 |
| 19     | <b>Source Protection Zones</b><br>Name: Swanscombe<br>Source: Environment Agency, Head Office<br>Reference: Su166<br>Type: Groundwater Source                                                                                                    | A11NW (NE)                             | 0                            | 2       | 559020<br>173010 |
| 20     | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.     | A11NW (NW)                             | 0                            | 2       | 558919<br>172841 |
| 21     | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source. | A11NW (NW)                             | 0                            | 2       | 558919<br>172841 |

| Map ID | Details                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 22     | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.                         | A7NE (SE)                              | 312                          | 2       | 559249 172322 |
| 23     | <b>Source Protection Zones</b><br>Name: Point I Sandy Lane At Betsham<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source                                                                                 | (SE)                                   | 567                          | 2       | 560130 172120 |
| 24     | <b>Source Protection Zones</b><br>Name: Borehole At Point A, Western Bean Farm<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source. | A6NW (SW)                              | 643                          | 2       | 558372 172352 |
| 25     | <b>Source Protection Zones</b><br>Name: Borehole Point C, Middle Drudgeon Farm<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source                                                                        | A7NE (SE)                              | 660                          | 2       | 559430 172080 |
| 26     | <b>Source Protection Zones</b><br>Name: Borehole Point B, Western Drudgeon Farm<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source                                                                       | A7SE (S)                               | 839                          | 2       | 559120 171980 |
| 27     | <b>Source Protection Zones</b><br>Name: Borehole At Point A, Western Bean Farm<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source                                                                        | A6NW (SW)                              | 842                          | 2       | 558170 172300 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                              |                                        |                              |         |               |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                                      |                                        |                              |         |               |
|        | <b>Areas Benefiting from Flood Defences</b><br>None                                                                                                                                                                                              |                                        |                              |         |               |
|        | <b>Flood Water Storage Areas</b><br>None                                                                                                                                                                                                         |                                        |                              |         |               |
|        | <b>Flood Defences</b><br>None                                                                                                                                                                                                                    |                                        |                              |         |               |
|        | <b>Detailed River Network Lines</b><br>None                                                                                                                                                                                                      |                                        |                              |         |               |
| 28     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D006                                                                                                                                          | A16NW (NE)                             | 0                            | 2       | 559499 173736 |
| 29     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                                                                                         | A16SE (E)                              | 0                            | 2       | 559937 173173 |
| 30     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                                                                                         | A12NE (E)                              | 0                            | 2       | 559904 173066 |
| 31     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                                                                                         | A12NE (E)                              | 0                            | 2       | 559946 172943 |
| 32     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                                                                                         | A12NE (E)                              | 0                            | 2       | 559800 172871 |
| 33     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D006                                                                                                                                          | A12SW (E)                              | 102                          | 2       | 559592 172616 |
| 34     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D006                                                                                                                                          | A8NW (SE)                              | 484                          | 2       | 559613 172222 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 35     | <b>Historical Landfill Sites</b><br>Licence Holder: Not Supplied<br>Location: Swale, Kent<br>Name: Alkerden Lane<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD19303<br>First Input Date: Not Supplied<br>Last Input Date: Not Supplied<br>Specified Waste: Deposited Waste included Inert Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 2200/7005<br>BGS Ref: Not Supplied<br>Other Ref: DA14                                                                                                                                                                                                                      | A16NW (NE)                             | 0                            | 2       | 559750 173635 |
| 36     | <b>Licensed Waste Management Facilities (Locations)</b><br>Licence Number: 400244<br>Location: Eastern Quarry, Watling Street, Bean, Dartford, Kent, DA2 8AH<br>Operator Name: O C L Regeneration Limited<br>Operator Location: Not Supplied<br>Authority: Environment Agency - South East Region, Kent & South London Area<br>Site Category: Treatment of waste to produce soil <75,000 tpy<br><b>Licence Status: Modified</b><br>Issued: 3rd June 2014<br>Last Modified: 18th February 2016<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A11NE (E)                              | 0                            | 2       | 559308 172851 |
| 37     | <b>Licensed Waste Management Facilities (Locations)</b><br>Licence Number: 402204<br>Location: Unit 2, Watling Street, Bean, Dartford, Kent, DA2 8AH<br>Operator Name: Albus Environmental Limited<br>Operator Location: Not Supplied<br>Authority: Environment Agency - South East Region, Kent & South London Area<br>Site Category: Special Waste Transfer Stations<br><b>Licence Status: Modified</b><br>Issued: 26th March 2015<br>Last Modified: 22nd October 2015<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                      | A11NW (NE)                             | 23                           | 2       | 558987 172894 |
| 38     | <b>Licensed Waste Management Facilities (Locations)</b><br>Licence Number: 10386<br>Location: Oakdene, Watling Street, Bean, Dartford, Kent, DA2 8AH<br>Operator Name: Mr Clive Halford & Mr Darren Winchester<br>Operator Location: Not Supplied<br>Authority: Environment Agency - South East Region, Kent & South London Area<br>Site Category: End of Life Vehicles<br><b>Licence Status: Modified</b><br>Issued: 22nd June 2007<br>Last Modified: 24th June 2014<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                         | A11NW (E)                              | 97                           | 2       | 559016 172808 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Dartford Borough Council<br>- Has no landfill data to supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | 0                            | 3       | 558919 172841 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Kent County Council<br>- Had landfill data but passed it to the relevant environment agency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | 0                            | 4       | 558919 172841 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: Thanet Sand Formation                                                                                                                                                                                                                                                                                                                                                                                                                   | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: White Chalk Subgroup                                                                                                                                                                                                                                                                                                                                                                                                                    | A11NW (N)                              | 0                            | 1       | 558922 172851 |
| 39     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 227230<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A15NE (NE)                             | 0                            | 1       | 559300 173555 |
| 40     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 227231<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A14SE (NW)                             | 0                            | 1       | 558725 173175 |
| 41     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 227232<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A11NE (NE)                             | 0                            | 1       | 559160 173055 |
| 42     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 227233<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A16SW (NE)                             | 0                            | 1       | 559765 173395 |
| 43     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Mount'S Wood Denehole<br>Location: , Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220780<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                              | A15SW (N)                              | 0                            | 1       | 559000 173167 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 44     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 2472<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Flint<br>Positional Accuracy: Located by supplier to within 10m | A15NW (N)                              | 0                            | 1       | 559035 173680 |
| 44     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 2472<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A15NW (N)                              | 0                            | 1       | 559035 173680 |
| 45     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Mounts Wood Chalk Pit<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 94775<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                              | A14NE (NW)                             | 0                            | 1       | 558609 173454 |
| 46     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Mounts Wood Brick Works<br>Location: , Bean, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131218<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Quaternary<br>Geology: Head<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                       | A15SW (N)                              | 0                            | 1       | 558914 173077 |
| 47     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Swanscombe Park Clay Pit<br>Location: , Bean, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 130777<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Palaeogene<br>Geology: London Clay Formation<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m     | A12NW (E)                              | 0                            | 1       | 559700 173036 |
| 48     | <b>BGS Recorded Mineral Sites</b><br>Site Name: The Thrift Chalk Pit<br>Location: , Bean, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131026<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                          | A11NW (NW)                             | 11                           | 1       | 558832 172951 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 49     | <b>BGS Recorded Mineral Sites</b><br>Site Name: The Thrift Chalk Pit<br>Location: , Bean, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131005<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m        | A10NE (W)                              | 81                           | 1       | 558748 172901 |
| 50     | <b>BGS Recorded Mineral Sites</b><br>Site Name: The Thrift Sand Pit<br>Location: , Bean, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131144<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Thanetian<br>Geology: Thanet Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m               | A10NE (W)                              | 170                          | 1       | 558665 172830 |
| 51     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Beechin Wood Chalk Pit<br>Location: , Bean, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131027<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m      | A14SW (NW)                             | 221                          | 1       | 558254 173118 |
| 52     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Castle Chalk Pit<br>Location: , Stone, Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 94770<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m          | A14NW (NW)                             | 283                          | 1       | 558276 173671 |
| 53     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Castle Chalk Pit<br>Location: , Stone, Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 94776<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m          | A14NW (NW)                             | 407                          | 1       | 558149 173739 |
| 54     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Darenth Wood Denehole<br>Location: , Darenth, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220536<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A10NW (W)                              | 433                          | 1       | 558189 172775 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 55     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Darenth Wood Denehole<br>Location: , Darenth, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220535<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A10SW (W)                              | 475                          | 1       | 558330 172630 |
| 56     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Castle Chalk Pit<br>Location: , Stone, Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 94771<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: Lewes Nodular Chalk Formation<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A13SE (NW)                             | 629                          | 1       | 557858 173408 |
| 57     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Darenth Wood Denehole<br>Location: , Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220530<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m          | A6NW (SW)                              | 673                          | 1       | 558369 172391 |
| 58     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Darenth Wood Denehole<br>Location: , Darenth, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220533<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A10SW (SW)                             | 703                          | 1       | 558231 172425 |
| 59     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Darenth Wood Denehole<br>Location: , Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220325<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m          | A6NW (SW)                              | 757                          | 1       | 558239 172359 |
| 60     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Darenth Wood Denehole<br>Location: , Darenth, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220534<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A6NW (SW)                              | 785                          | 1       | 558187 172355 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 61     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Bean Farm Sand Pit<br>Location: , Bean, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131143<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Thanetian<br>Geology: Thanet Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m                | A6NW (SW)                              | 945                          | 1       | 558194 172171 |
| 62     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Darenth Wood Denehole<br>Location: , Darenth, Dartford, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220532<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A9SW (W)                               | 977                          | 1       | 557658 172580 |
|        | <b>Coal Mining Affected Areas</b><br>In an area that might not be affected by coal mining                                                                                                                                                                                                                                                                                                                                                                              |                                        |                              |         |               |
|        | <b>Mining Instability</b><br>Mining Evidence: Conclusive Rock Mining<br>Source: Ove Arup & Partners<br>Boundary Quality: As Supplied                                                                                                                                                                                                                                                                                                                                   | A11NW (NW)                             | 0                            | -       | 558919 172841 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 558700<br>Northing: 173700<br>Distance: 0<br>Quadrant Reference: A14<br>Quadrant Reference: NE<br>Bearing Ref: N<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Chalk Group<br>Superficial Geology: Worked Ground and Made Ground<br>Detail:                                                                                                           | A14NE (N)                              | 0                            | 5       | 558700 173700 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 559000<br>Northing: 173200<br>Distance: 0<br>Quadrant Reference: A15<br>Quadrant Reference: SW<br>Bearing Ref: N<br>Cavity Type: Denehole (Destroyed)<br>Commodity: Chalk<br>Solid Geology Detail: Chalk Group<br>Superficial Geology: Worked Ground<br>Detail:                                                                                                                                                            | A15SW (N)                              | 0                            | 5       | 559000 173200 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 559100<br>Northing: 173200<br>Distance: 0<br>Quadrant Reference: A15<br>Quadrant Reference: SW<br>Bearing Ref: NE<br>Cavity Type: 2x Deneholes (Destroyed)<br>Commodity: Chalk<br>Solid Geology Detail: Chalk Group<br>Superficial Geology: Worked Ground<br>Detail:                                                                                                                                                       | A15SW (NE)                             | 0                            | 5       | 559100 173200 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Man-Made Mining Cavities</b><br>Easting: 559200<br>Northing: 173300<br>Distance: 0<br>Quadrant Reference: A15<br>Quadrant Reference: SE<br>Bearing Ref: NE<br>Cavity Type: Denehole (Destroyed)<br>Commodity: Chalk<br>Solid Geology Detail: Chalk Group<br>Superficial Geology: Worked Ground and Made Ground<br>Detail:                                        | A15SE (NE)                             | 0                            | 5       | 559200 173300 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 558200<br>Northing: 172800<br>Distance: 408<br>Quadrant Reference: A10<br>Quadrant Reference: NW<br>Bearing Ref: W<br>Cavity Type: Multiple Shaft/Crown Hole Collapses-Probable Deneholes<br>Commodity: Chalk<br>Solid Geology Detail: Chalk Group<br>Superficial Geology: No Details<br>Detail:                        | A10NW (W)                              | 408                          | 5       | 558200 172800 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 558400<br>Northing: 172600<br>Distance: 469<br>Quadrant Reference: A10<br>Quadrant Reference: SW<br>Bearing Ref: SW<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Chalk Group<br>Superficial Geology: Made Ground, Head<br>Detail:                 | A10SW (SW)                             | 469                          | 5       | 558400 172600 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 558400<br>Northing: 172400<br>Distance: 654<br>Quadrant Reference: A10<br>Quadrant Reference: SW<br>Bearing Ref: SW<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology: No Details<br>Detail: | A10SW (SW)                             | 654                          | 5       | 558400 172400 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 558200<br>Northing: 172400<br>Distance: 739<br>Quadrant Reference: A10<br>Quadrant Reference: SW<br>Bearing Ref: SW<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology: No Details<br>Detail: | A10SW (SW)                             | 739                          | 5       | 558200 172400 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 558100<br>Northing: 172400<br>Distance: 786<br>Quadrant Reference: A10<br>Quadrant Reference: SW<br>Bearing Ref: SW<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology: No Details<br>Detail: | A10SW (SW)                             | 786                          | 5       | 558100 172400 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Man-Made Mining Cavities</b><br>Easting: 557700<br>Northing: 172600<br>Distance: 930<br>Quadrant Reference: A9<br>Quadrant Reference: SW<br>Bearing Ref: W<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology No Details<br>Detail:       | A9SW (W)                               | 930                          | 5       | 557700 172600 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 557700<br>Northing: 172500<br>Distance: 986<br>Quadrant Reference: A9<br>Quadrant Reference: SW<br>Bearing Ref: W<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology Undifferentiated<br>Detail: | A9SW (W)                               | 986                          | 5       | 557700 172500 |
|        | <b>Natural Cavities</b><br>Easting: 558600<br>Northing: 173200<br>Distance: 0<br>Quadrant Reference: A14<br>Quadrant Reference: SE<br>Bearing Ref: NW<br>Cavity Type: Solution Pipe x 3<br>Solid Geology Detail: Chalk Group<br>Superficial Geology Worked Ground<br>Detail:                                                                                           | A14SE (NW)                             | 0                            | 5       | 558600 173200 |
|        | <b>Natural Cavities</b><br>Easting: 558800<br>Northing: 172900<br>Distance: 68<br>Quadrant Reference: A11<br>Quadrant Reference: NW<br>Bearing Ref: NW<br>Cavity Type: Solution Pipe x 3<br>Solid Geology Detail: Chalk Group, Thanet Sand Formation<br>Superficial Geology Head<br>Detail:                                                                            | A11NW (NW)                             | 68                           | 5       | 558800 172900 |
|        | <b>Natural Cavities</b><br>Easting: 558650<br>Northing: 172850<br>Distance: 154<br>Quadrant Reference: A10<br>Quadrant Reference: NE<br>Bearing Ref: W<br>Cavity Type: Solution Pipe x 3<br>Solid Geology Detail: Chalk Group, Thanet Sand Formation<br>Superficial Geology Worked Ground<br>Detail:                                                                   | A10NE (W)                              | 154                          | 5       | 558650 172850 |
|        | <b>Natural Cavities</b><br>Easting: 558200<br>Northing: 173200<br>Distance: 270<br>Quadrant Reference: A14<br>Quadrant Reference: SW<br>Bearing Ref: NW<br>Cavity Type: Solution Pipe<br>Solid Geology Detail: Chalk Group<br>Superficial Geology Head, Made Ground<br>Detail:                                                                                         | A14SW (NW)                             | 270                          | 5       | 558200 173200 |

| Map ID | Details                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Natural Cavities</b><br>Easting: 558000<br>Northing: 173700<br>Distance: 553<br>Quadrant Reference: A13<br>Quadrant Reference: NE<br>Bearing Ref: NW<br>Cavity Type: Solution Pipe x 4<br>Solid Geology Detail: Chalk Group<br>Superficial Geology: Made Ground, Worked Ground<br>Detail:          | A13NE (NW)                             | 553                          | 5       | 558000 173700 |
|        | <b>Natural Cavities</b><br>Easting: 558200<br>Northing: 172350<br>Distance: 783<br>Quadrant Reference: A6<br>Quadrant Reference: NW<br>Bearing Ref: SW<br>Cavity Type: Solution Pipe x 6<br>Solid Geology Detail: Chalk Group, Thanet Sand Formation<br>Superficial Geology: Taplow Gravel<br>Detail: | A6NW (SW)                              | 783                          | 5       | 558200 172350 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                  | (NE)                                   | 0                            | 1       | 560000 173794 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                  | A12NE (E)                              | 0                            | 1       | 560000 172784 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                  | A11SW (SE)                             | 0                            | 1       | 559071 172562 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                             | A12NE (E)                              | 0                            | 1       | 560000 172841 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                             | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Likely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                    | A15SW (N)                              | 0                            | 1       | 558988 173119 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Likely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                           | A11NW (N)                              | 0                            | 1       | 558979 173070 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                  | A12SE (E)                              | 65                           | 1       | 559987 172609 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                 | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                 | A12NE (E)                              | 0                            | 1       | 560000 172841 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                               | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                               | A12NE (E)                              | 0                            | 1       | 560000 172841 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                | (NE)                                   | 0                            | 1       | 559565 173949 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                | A15SW (N)                              | 0                            | 1       | 558920 173260 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                | A11NW (NE)                             | 0                            | 1       | 558967 172938 |



| Map ID | Details                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A16SE (E)                              | 0                            | 1       | 560000 173232 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A10NE (NW)                             | 0                            | 1       | 558601 173045 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A16NE (NE)                             | 0                            | 1       | 560000 173743 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (NW)                             | 0                            | 1       | 558831 172979 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A14NE (NW)                             | 51                           | 1       | 558448 173462 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A11SE (E)                              | 71                           | 1       | 559256 172707 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A10NW (W)                              | 105                          | 1       | 558389 173057 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A11SW (SE)                             | 122                          | 1       | 559101 172729 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (SW)                             | 188                          | 1       | 558844 172761 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (SE)                             | 233                          | 1       | 559844 172435 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (NE)                             | 0                            | 1       | 558998 173017 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A16SE (E)                              | 0                            | 1       | 560000 173207 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A12NW (E)                              | 0                            | 1       | 559498 172872 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A12NE (E)                              | 0                            | 1       | 560000 172858 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (N)                              | 0                            | 1       | 558942 173008 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A14SE (NW)                             | 0                            | 1       | 558635 173099 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A12NW (E)                              | 0                            | 1       | 559554 172910 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A12NE (E)                              | 0                            | 1       | 560000 172909 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: High<br>Source: British Geological Survey, National Geoscience Information Service      | A11NW (W)                              | 0                            | 1       | 558799 172802 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service       | A14NE (NW)                             | 0                            | 1       | 558432 173671 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service       | (N)                                    | 0                            | 1       | 558999 173933 |

| Map ID | Details                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service       | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service       | A12NE (E)                              | 0                            | 1       | 560000 172841 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | (NE)                                   | 0                            | 1       | 559561 173914 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (NW)                             | 0                            | 1       | 558773 172985 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A11SW (SE)                             | 0                            | 1       | 559014 172620 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560000 172789 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (N)                              | 0                            | 1       | 558967 173025 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12NW (E)                              | 0                            | 1       | 559485 172885 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A16SE (E)                              | 0                            | 1       | 560000 173132 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560000 172869 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A16NE (NE)                             | 0                            | 1       | 559980 173740 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A16NE (NE)                             | 0                            | 1       | 560000 173728 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (N)                              | 0                            | 1       | 558926 173073 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A15NW (N)                              | 0                            | 1       | 558839 173448 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A14SE (NW)                             | 0                            | 1       | 558544 173140 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (W)                              | 42                           | 1       | 558780 172794 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A10NE (W)                              | 51                           | 1       | 558472 173021 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A14SW (NW)                             | 53                           | 1       | 558369 173209 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A10NE (W)                              | 109                          | 1       | 558515 172868 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A14SW (NW)                             | 137                          | 1       | 558333 173178 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: High<br>Source: British Geological Survey, National Geoscience Information Service      | A10NE (W)                              | 157                          | 1       | 558441 172750 |

| Map ID | Details                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A14SW (NW)                             | 237                          | 1       | 558235 173265 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A10NW (W)                              | 241                          | 1       | 558246 172980 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A10SW (W)                              | 247                          | 1       | 558374 172728 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | A11NW (W)                              | 0                            | 1       | 558780 172794 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | A12NE (E)                              | 0                            | 1       | 560000 172880 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | A11NW (W)                              | 0                            | 1       | 558789 172831 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A12NW (E)                              | 0                            | 1       | 559480 172914 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A14SE (NW)                             | 0                            | 1       | 558491 173341 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A15SW (N)                              | 0                            | 1       | 558920 173260 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A14NE (NW)                             | 0                            | 1       | 558448 173462 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A12NE (E)                              | 0                            | 1       | 559966 172737 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A12NE (E)                              | 0                            | 1       | 560000 172841 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12NW (E)                              | 0                            | 1       | 559766 172753 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12NE (E)                              | 0                            | 1       | 559917 172740 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12NE (E)                              | 0                            | 1       | 560000 172766 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12SE (E)                              | 0                            | 1       | 560000 172732 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A11NE (E)                              | 0                            | 1       | 559138 172791 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A11NW (N)                              | 0                            | 1       | 558932 172974 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service    | A11NW (NW)                             | 0                            | 1       | 558786 173011 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service    | A14SE (NW)                             | 0                            | 1       | 558490 173168 |



| Map ID | Details                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A12NW (E)                              | 0                            | 1       | 559765 172756 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560046 172752 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A11NE (E)                              | 0                            | 1       | 559152 172870 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (NE)                             | 0                            | 1       | 559071 172959 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (NW)                             | 0                            | 1       | 558765 172965 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560000 172772 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A12NW (E)                              | 5                            | 1       | 559444 172751 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A11NW (W)                              | 13                           | 1       | 558801 172811 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A10NE (W)                              | 27                           | 1       | 558741 172907 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A14SE (NW)                             | 28                           | 1       | 558449 173320 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A14SE (NW)                             | 29                           | 1       | 558441 173191 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A14SE (NW)                             | 32                           | 1       | 558445 173298 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A12SW (E)                              | 33                           | 1       | 559763 172629 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A14SE (NW)                             | 33                           | 1       | 558435 173237 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (E)                              | 35                           | 1       | 560000 172649 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (E)                              | 37                           | 1       | 559999 172649 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A12SE (E)                              | 38                           | 1       | 560000 172648 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A14SE (NW)                             | 46                           | 1       | 558440 173364 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (E)                              | 65                           | 1       | 559987 172609 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A12SE (E)                              | 69                           | 1       | 560003 172612 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service      | A12SW (E)                              | 70                           | 1       | 559556 172643 |

| Map ID | Details                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A14NE (NW)                             | 83                           | 1       | 558438 173667 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A12SE (E)                              | 84                           | 1       | 559786 172580 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12SE (E)                              | 95                           | 1       | 560000 172591 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service    | A12SE (E)                              | 96                           | 1       | 559951 172559 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A14SW (NW)                             | 157                          | 1       | 558319 173098 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A10NE (W)                              | 161                          | 1       | 558435 172772 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service    | A10NW (W)                              | 166                          | 1       | 558408 172859 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12SW (E)                              | 187                          | 1       | 559776 172504 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service    | A12SW (SE)                             | 188                          | 1       | 559761 172491 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12SE (E)                              | 189                          | 1       | 559801 172488 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service    | A8NE (SE)                              | 212                          | 1       | 559944 172386 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service    | A12SE (E)                              | 212                          | 1       | 560000 172474 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service         | A12SW (SE)                             | 226                          | 1       | 559740 172414 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | A10NW (W)                              | 241                          | 1       | 558246 172980 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | A10NW (W)                              | 247                          | 1       | 558368 172754 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A14NE (NW)                             | 0                            | 1       | 558448 173462 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A15SW (N)                              | 0                            | 1       | 558920 173260 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560000 172784 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A12NW (E)                              | 0                            | 1       | 559486 172818 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560000 172828 |

| Map ID | Details                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | (NE)                                   | 0                            | 1       | 560000<br>173794 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12NW (E)                              | 0                            | 1       | 559765<br>172756 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560000<br>172772 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (W)                              | 0                            | 1       | 558789<br>172831 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A10NE (NW)                             | 0                            | 1       | 558601<br>173045 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560000<br>172841 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11NE (E)                              | 0                            | 1       | 559174<br>172756 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (NE)                             | 0                            | 1       | 558985<br>172875 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11NE (NE)                             | 0                            | 1       | 559137<br>172940 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (SW)                             | 0                            | 1       | 558848<br>172802 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | (NE)                                   | 0                            | 1       | 560000<br>173757 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12SW (E)                              | 33                           | 1       | 559763<br>172629 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (E)                              | 35                           | 1       | 560000<br>172649 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A12SE (E)                              | 65                           | 1       | 559987<br>172609 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11NW (SW)                             | 66                           | 1       | 558785<br>172784 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (E)                              | 95                           | 1       | 560000<br>172591 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A12SE (E)                              | 95                           | 1       | 560037<br>172591 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A12SE (E)                              | 136                          | 1       | 559995<br>172544 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A11SE (SE)                             | 173                          | 1       | 559149<br>172675 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A11SW (S)                              | 198                          | 1       | 558912<br>172692 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (E)                              | 212                          | 1       | 560000<br>172474 |



| Map ID | Details                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                               | A12SE (SE)                             | 233                          | 1       | 559844 172435 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                              | A10NW (W)                              | 241                          | 1       | 558246 172980 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                              | A10NW (W)                              | 247                          | 1       | 558368 172754 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | A11NE (E)                              | 0                            | 1       | 559174 172756 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | A12NE (E)                              | 0                            | 1       | 560000 172841 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A14SE (NW)                             | 0                            | 1       | 558490 173168 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A12SE (E)                              | 0                            | 1       | 560026 172605 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A14NE (NW)                             | 0                            | 1       | 558438 173667 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A11NW (NE)                             | 0                            | 1       | 559071 172959 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A11NW (SW)                             | 0                            | 1       | 558812 172791 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A11SW (SE)                             | 0                            | 1       | 559071 172562 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A12NE (E)                              | 0                            | 1       | 560000 172784 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | (NE)                                   | 0                            | 1       | 560000 173794 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | A12SE (E)                              | 95                           | 1       | 560037 172591 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | A10NE (W)                              | 157                          | 1       | 558441 172750 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560002 172899 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (N)                              | 0                            | 1       | 558919 173049 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A12SE (E)                              | 0                            | 1       | 560027 172699 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A11SE (SE)                             | 0                            | 1       | 559277 172549 |

| Map ID | Details                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A14NE (NW)                             | 0                            | 1       | 558502 173599 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A12NE (E)                              | 0                            | 1       | 560002 172841 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | A12NE (E)                              | 0                            | 1       | 560002 172899 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | A11NW (N)                              | 0                            | 1       | 558919 173049 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | A12SE (E)                              | 0                            | 1       | 560027 172699 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | A11SE (SE)                             | 0                            | 1       | 559277 172549 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | A14NE (NW)                             | 0                            | 1       | 558502 173599 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | A11NW (NW)                             | 0                            | 1       | 558919 172841 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | A12NE (E)                              | 0                            | 1       | 560002 172841 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 63     | <b>Contemporary Trade Directory Entries</b><br>Name: Lafarge<br>Location: Watling Street, Bean, DARTFORD, DA2 8AH<br>Classification: Concrete Products<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                                            | A11NE (E)                              | 0                            | -       | 559360 172878 |
| 64     | <b>Contemporary Trade Directory Entries</b><br>Name: O C L Regeneration Ltd<br>Location: Washmills Eastern Quarry, Watling Street, Bean, Dartford, Kent, DA2 8AH<br>Classification: Recycling Services<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality                 | A11NW (E)                              | 47                           | -       | 559028 172856 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: A2 Car Breakers<br>Location: Watling House, Watling Street, Bean, DARTFORD, DA2 8AH<br>Classification: Car Breakers & Dismantlers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                            | A11NE (E)                              | 48                           | -       | 559178 172804 |
| 66     | <b>Contemporary Trade Directory Entries</b><br>Name: U Kings Global Ltd<br>Location: The Bungalow, Watling Street, Bean, Dartford, DA2 8AH<br>Classification: Road Haulage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                 | A11NW (SE)                             | 103                          | -       | 558932 172827 |
| 66     | <b>Contemporary Trade Directory Entries</b><br>Name: A2 Car Breakers<br>Location: Watling Street, Bean, Dartford, Kent, DA2 8AH<br>Classification: Car Breakers & Dismantlers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                     | A11NW (S)                              | 148                          | -       | 558922 172784 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: J & S Brickwork Ltd<br>Location: 17, Stonewood, Bean, Dartford, DA2 8BZ<br>Classification: Pest & Vermin Control<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                               | A11SE (SE)                             | 366                          | -       | 559294 172421 |
| 68     | <b>Contemporary Trade Directory Entries</b><br>Name: Currys P C World<br>Location: Unit L041, Lower Thames Walk, Bluewater, Greenhithe, DA9 9SJ<br>Classification: Electrical Goods Sales, Manufacturers & Wholesalers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address              | A13NE (NW)                             | 433                          | -       | 558064 173457 |
| 68     | <b>Contemporary Trade Directory Entries</b><br>Name: Currys Digital<br>Location: Unit L41, Lower Thames Walk, Bluewater, Greenhithe, Kent, DA9 9SJ<br>Classification: Electrical Goods Sales, Manufacturers & Wholesalers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address         | A13NE (NW)                             | 439                          | -       | 558056 173448 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: Wax Lyrical Ltd<br>Location: Unit U20, Upper Rose Gallery, Bluewater, Greenhithe, Kent, DA9 9SP<br>Classification: Candle Manufacturers & Suppliers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                          | A13NE (NW)                             | 467                          | -       | 558047 173552 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: Quiksilver Board Riders<br>Location: Unit L003, Lower Rose Gallery, Bluewater, GREENHITHE, Kent, DA9 9SH<br>Classification: Leisure & Sportswear Manufacturers & Wholesalers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A13NE (NW)                             | 467                          | -       | 558047 173552 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: The Perfume Shop<br>Location: Unit U036, Upper Rose Gallery, Bluewater, Greenhithe, Kent, DA9 9SP<br>Classification: Perfume Suppliers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                       | A13NE (NW)                             | 481                          | -       | 558042 173597 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: O2 Store Bluewater<br>Location: Unit L030, Lower Rose Gallery, Bluewater, Greenhithe, Kent, DA9 9SH<br>Classification: Mobile Phone Accessories and Car Kits<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                 | A13NE (NW)                             | 481                          | -       | 558042 173597 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: Pumpkin Patch<br>Location: Unit U025, Upper Rose Gallery, Bluewater, Greenhithe, Kent, DA9 9SP<br>Classification: Children & Babywear - Manufacturers & Wholesalers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                      | A13NE (NW)                             | 481                          | -       | 558042 173597 |
| 70     | <b>Contemporary Trade Directory Entries</b><br>Name: Oil & Vinegar<br>Location: Unit 6, Upper Rose Gallery, Bluewater, Greenhithe, Kent, DA9 9SP<br>Classification: Oils - Edible<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality                                                | A13NE (NW)                             | 473                          | -       | 558060 173628 |
| 71     | <b>Contemporary Trade Directory Entries</b><br>Name: A A N Concrete Pumping<br>Location: 8, Stonewood, Bean, Dartford, DA2 8BY<br>Classification: Concrete & Mortar Ready Mixed<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                               | A7NE (SE)                              | 481                          | -       | 559259 172311 |
| 71     | <b>Contemporary Trade Directory Entries</b><br>Name: A A N Concrete Pumping<br>Location: 8, Stonewood, Bean, Dartford, DA2 8BY<br>Classification: Concrete Pumping Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                                   | A7NE (SE)                              | 481                          | -       | 559259 172311 |
| 72     | <b>Contemporary Trade Directory Entries</b><br>Name: The Perfume Shop<br>Location: Unit U037b, Upper Thames Walk, Bluewater, Greenhithe, Kent, DA9 9SQ<br>Classification: Perfume Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                   | A13NE (NW)                             | 565                          | -       | 557935 173484 |
| 73     | <b>Contemporary Trade Directory Entries</b><br>Name: L'Occitane<br>Location: L115b, Unit, Lower Guild Hall, Bluewater, Greenhithe, Kent, DA9 9SN<br>Classification: Perfume Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                         | A13NE (NW)                             | 611                          | -       | 557925 173661 |
| 74     | <b>Contemporary Trade Directory Entries</b><br>Name: Sony Centre<br>Location: Unit Sv03, Water Circus, Bluewater, GREENHITHE, Kent, DA9 9SG<br>Classification: Electrical Goods Sales, Manufacturers & Wholesalers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                            | A13NE (NW)                             | 619                          | -       | 557871 173438 |
| 75     | <b>Contemporary Trade Directory Entries</b><br>Name: Apple<br>Location: Bluewater Management Suite, Upper Rose Gallery, Bluewater, Greenhithe, Kent, DA9 9ST<br>Classification: Electrical Goods Sales, Manufacturers & Wholesalers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address           | A13NE (NW)                             | 635                          | -       | 557881 173574 |
| 75     | <b>Contemporary Trade Directory Entries</b><br>Name: Uk Mobility<br>Location: Lower Thames Walk, Bluewater, GREENHITHE, Kent, DA9 9SJ<br>Classification: Disability Equipment - Manufacturers & Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                     | A13NE (NW)                             | 635                          | -       | 557881 173574 |
| 75     | <b>Contemporary Trade Directory Entries</b><br>Name: Crabtree & Evelyn<br>Location: Unit U135, Upper Guild Hall, Bluewater, Greenhithe, Kent, DA9 9SS<br>Classification: Toiletries<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                           | A13NE (NW)                             | 635                          | -       | 557881 173574 |
| 75     | <b>Contemporary Trade Directory Entries</b><br>Name: Wild Orchid Vendetta<br>Location: Bluewater Management Suite, Upper Rose Gallery, Bluewater, Greenhithe, Kent, DA9 9ST<br>Classification: Lingerie & Hosiery Manufacturers & Wholesalers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A13NE (NW)                             | 635                          | -       | 557881 173574 |

| Map ID | Details                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 76     | <b>Contemporary Trade Directory Entries</b><br>Name: Watchfinder<br>Location: Unit Wv111, The Village, Bluewater, Greenhithe, Kent, DA9 9SE<br>Classification: Clocks & Watches - Manufacturers & Wholesalers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A13NE (NW)                             | 673                          | -       | 557852 173628 |
| 77     | <b>Contemporary Trade Directory Entries</b><br>Name: The Fragrance Shop<br>Location: Unit L067, Lower Thames Walk, Bluewater, Greenhithe, DA9 9SL<br>Classification: Perfume Suppliers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                        | A13NE (NW)                             | 685                          | -       | 557818 173516 |
| 77     | <b>Contemporary Trade Directory Entries</b><br>Name: Villeroy & Boch<br>Location: Unit U68, Upper Thames Walk, Bluewater, Greenhithe, Kent, DA9 9SQ<br>Classification: Tableware<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                              | A13NE (NW)                             | 723                          | -       | 557780 173516 |
| 78     | <b>Contemporary Trade Directory Entries</b><br>Name: Pecksniff's<br>Location: Unit Wv102, The Village, Bluewater, Greenhithe, Kent, DA9 9SE<br>Classification: Toiletries<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                   | A13NE (NW)                             | 707                          | -       | 557811 173598 |
| 79     | <b>Contemporary Trade Directory Entries</b><br>Name: Chilled Out Air Conditioning<br>Location: 28, Turner Road, Bean, DARTFORD, DA2 8BA<br>Classification: Air Conditioning & Refrigeration Contractors<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address     | A6NE (S)                               | 713                          | -       | 558755 172244 |
| 80     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264727<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013                                                                                                                     | A12SE (E)                              | 0                            | 6       | 560037 172724 |
| 81     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264733<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013                                                                                                                     | A12SE (E)                              | 0                            | 6       | 560037 172723 |
| 82     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265075<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013                                                                                                                     | A11NW (NW)                             | 0                            | 6       | 558837 172965 |
| 83     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264730<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013                                                                                                                     | A12SW (E)                              | 0                            | 6       | 559672 172709 |
| 84     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264737<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013                                                                                                                     | A12SW (E)                              | 0                            | 6       | 559672 172708 |
| 85     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264736<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013                                                                                                                     | A12SE (E)                              | 0                            | 6       | 560037 172722 |

| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 86     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265012<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NW (N)                              | 0                            | 6       | 558945 172933 |
| 87     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265023<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A10NE (NW)                             | 0                            | 6       | 558689 173009 |
| 88     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264739<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A12SW (E)                              | 0                            | 6       | 559672 172708 |
| 89     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264342<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A10NE (NW)                             | 0                            | 6       | 558689 173008 |
| 90     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265076<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NW (N)                              | 0                            | 6       | 558947 172934 |
| 91     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265002<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559154 172862 |
| 92     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265013<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559154 172863 |
| 93     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264734<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A12SW (E)                              | 0                            | 6       | 559672 172709 |
| 94     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264226<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NW (N)                              | 0                            | 6       | 558947 172935 |
| 95     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265001<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NW (N)                              | 0                            | 6       | 558945 172932 |



| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 96     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264367<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559169 172859 |
| 97     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265026<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559285 172819 |
| 98     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264379<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A12NW (E)                              | 0                            | 6       | 559511 172743 |
| 99     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265024<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NW (N)                              | 0                            | 6       | 558945 172933 |
| 100    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264728<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A12SW (E)                              | 0                            | 6       | 559672 172710 |
| 101    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264731<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A12SE (E)                              | 0                            | 6       | 560037 172723 |
| 102    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265014<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559285 172819 |
| 103    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265074<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A10NE (NW)                             | 0                            | 6       | 558564 173032 |
| 104    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265011<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A10NE (NW)                             | 0                            | 6       | 558689 173008 |
| 105    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264227<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559170 172859 |

| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 106    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265025<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559154 172863 |
| 107    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265003<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NE (E)                              | 0                            | 6       | 559285 172818 |
| 108    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264225<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A10NE (NW)                             | 0                            | 6       | 558564 173032 |
| 109    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264378<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A11NW (NW)                             | 0                            | 6       | 558837 172966 |
| 110    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265077<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A12NW (E)                              | 0                            | 6       | 559511 172743 |
| 111    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264740<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A12SE (E)                              | 0                            | 6       | 560037 172722 |
| 112    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264366<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A10NW (NW)                             | 90                           | 6       | 558405 173060 |
| 113    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264224<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A10NW (NW)                             | 90                           | 6       | 558406 173060 |
| 114    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265000<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A14SW (W)                              | 313                          | 6       | 558162 173109 |
| 115    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264349<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A14SW (W)                              | 313                          | 6       | 558162 173110 |

| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 116    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264346<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A14SW (W)                              | 313                          | 6       | 558162 173109 |
| 117    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264223<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A14SW (W)                              | 377                          | 6       | 558096 173119 |
| 118    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265073<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A14SW (W)                              | 377                          | 6       | 558096 173119 |
| 119    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264377<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A13SW (W)                              | 757                          | 6       | 557714 173210 |
| 120    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265072<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A13SW (W)                              | 757                          | 6       | 557713 173210 |
| 121    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264345<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A13SW (W)                              | 840                          | 6       | 557630 173238 |
| 122    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 265022<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A13SW (W)                              | 840                          | 6       | 557631 173238 |
| 123    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264999<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | A13SW (W)                              | 840                          | 6       | 557630 173237 |



| Map ID | Details                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 124    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 1486628<br>Area(m²): 1957.09<br>Type: Ancient and Semi-Natural Woodland                                                                   | A11NE (E)                              | 42                           | 7       | 559291 172740 |
| 125    | <b>Ancient Woodland</b><br>Name: Parkhill Wood<br>Reference: 1486875<br>Area(m²): 47737.79<br>Type: Ancient and Semi-Natural Woodland                                                                 | A12SW (E)                              | 60                           | 7       | 559711 172636 |
| 126    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 1486763<br>Area(m²): 4023.29<br>Type: Ancient and Semi-Natural Woodland                                                                   | A11NE (E)                              | 75                           | 7       | 559131 172769 |
| 127    | <b>Ancient Woodland</b><br>Name: The Thrift<br>Reference: 1498351<br>Area(m²): 82714.61<br>Type: Ancient and Semi-Natural Woodland                                                                    | A11SW (S)                              | 125                          | 7       | 558996 172580 |
| 128    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 1498361<br>Area(m²): 113330.66<br>Type: Ancient and Semi-Natural Woodland                                                                 | A10NW (W)                              | 285                          | 7       | 558280 172832 |
| 129    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 1486701<br>Area(m²): 6129.48<br>Type: Ancient and Semi-Natural Woodland                                                                   | A9NE (W)                               | 386                          | 7       | 558088 173055 |
| 130    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 1498349<br>Area(m²): 162274.17<br>Type: Ancient and Semi-Natural Woodland                                                                 | A10NW (W)                              | 388                          | 7       | 558100 173004 |
| 131    | <b>Ancient Woodland</b><br>Name: Darenth/Ladies Woods<br>Reference: 1498413<br>Area(m²): 64070.2<br>Type: Ancient and Semi-Natural Woodland                                                           | A10SW (W)                              | 539                          | 7       | 558263 172579 |
| 132    | <b>Ancient Woodland</b><br>Name: Darenth/Ladies Woods<br>Reference: 1498415<br>Area(m²): 282823.47<br>Type: Ancient and Semi-Natural Woodland                                                         | A9SE (W)                               | 830                          | 7       | 557957 172450 |
| 133    | <b>Areas of Unadopted Green Belt</b><br>Authority: Dartford Borough Council<br>Plan Name: Dartford Borough Local Plan Review<br>Status: <b>Second Deposit Draft</b><br>Plan Date: 30th September 2002 | A11NW (NW)                             | 8                            | 8       | 558919 172841 |
| 134    | <b>National Nature Reserves</b><br>Name: Swanscombe Skull Site<br>Multiple Areas: N<br>Total Area (m2): 20873.27<br>Source: Natural England<br>Reference: 1006139<br>Designation Date: Not Supplied   | (NE)                                   | 126                          | 7       | 559778 174198 |
| 135    | <b>Nitrate Vulnerable Zones</b><br>Name: Not Supplied<br>Description: Groundwater<br>Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)                               | A11NW (NW)                             | 0                            | 9       | 558919 172841 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 136    | <b>Sites of Special Scientific Interest</b><br>Name: Swanscombe Skull Site<br>Multiple Areas: N<br>Total Area (m2): 38785.32<br>Source: Natural England<br>Reference: 1003665<br>Designation Details: National Nature Reserve<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Local Nature Reserve<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Nature Conservation Review<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Geological Conservation Review<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Site Of Special Scientific Interest<br>Designation Date: 11th January 1988<br>Date Type: Notified | (NE)                                   | 28                           | 7       | 559651<br>174171 |
| 137    | <b>Sites of Special Scientific Interest</b><br>Name: Darenth Wood<br>Multiple Areas: Y<br>Total Area (m2): 1229090.15<br>Source: Natural England<br>Reference: 1003548<br>Designation Details: Local Wildlife Site<br>Designation Date: 22nd March 1989<br>Date Type: Notified<br>Designation Details: Nature Conservation Review<br>Designation Date: 22nd March 1989<br>Date Type: Notified<br>Designation Details: Site Of Special Scientific Interest<br>Designation Date: 22nd March 1989<br>Date Type: Notified                                                                                                                                                                                                                                                  | A10NW<br>(W)                           | 299                          | 7       | 558280<br>172832 |

| Agency & Hydrological                                                                                                                                                                              | Version                          | Update Cycle                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| <b>Contaminated Land Register Entries and Notices</b><br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department                | October 2014<br>September 2013   | Annual Rolling Update<br>Annual Rolling Update |
| <b>Discharge Consents</b><br>Environment Agency - Southern Region                                                                                                                                  | April 2016                       | Quarterly                                      |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - Southern Region                                                                                                                 | March 2013                       | As notified                                    |
| <b>Integrated Pollution Controls</b><br>Environment Agency - Southern Region                                                                                                                       | October 2008                     | Not Applicable                                 |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - Southern Region                                                                                                         | April 2016                       | Quarterly                                      |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department   | September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Controls</b><br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department             | September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department | September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey                                                                                                                                            | July 2012                        | Quarterly                                      |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Southern Region                                                                                                            | December 1999                    | Not Applicable                                 |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - Southern Region                                                                                                       | March 2013                       | As notified                                    |
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - Southern Region                                                                                                          | March 2013                       | As notified                                    |
| <b>River Quality</b><br>Environment Agency - Head Office                                                                                                                                           | November 2001                    | Not Applicable                                 |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office                                                                                                                   | July 2012                        | Annually                                       |
| <b>River Quality Chemistry Sampling Points</b><br>Environment Agency - Head Office                                                                                                                 | July 2012                        | Annually                                       |
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                | April 2016<br>April 2016         | Quarterly<br>Quarterly                         |
| <b>Water Abstractions</b><br>Environment Agency - Southern Region                                                                                                                                  | January 2016                     | Quarterly                                      |
| <b>Water Industry Act Referrals</b><br>Environment Agency - Southern Region                                                                                                                        | April 2016                       | Quarterly                                      |
| <b>Groundwater Vulnerability</b><br>Environment Agency - Head Office                                                                                                                               | April 2015                       | Not Applicable                                 |
| <b>Drift Deposits</b><br>Environment Agency - Head Office                                                                                                                                          | January 1999                     | Not Applicable                                 |
| <b>Bedrock Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service                                                                                         | August 2015                      | As notified                                    |
| <b>Superficial Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service                                                                                     | August 2015                      | As notified                                    |
| <b>Source Protection Zones</b><br>Environment Agency - Head Office                                                                                                                                 | April 2016                       | Quarterly                                      |



| Agency & Hydrological                                                                                                                                                                                                                           | Version                                | Update Cycle                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                                                                 | February 2016                          | Quarterly                                          |
| <b>Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                                                                         | February 2016                          | Quarterly                                          |
| <b>Areas Benefiting from Flood Defences</b><br>Environment Agency - Head Office                                                                                                                                                                 | February 2016                          | Quarterly                                          |
| <b>Flood Water Storage Areas</b><br>Environment Agency - Head Office                                                                                                                                                                            | February 2016                          | Quarterly                                          |
| <b>Flood Defences</b><br>Environment Agency - Head Office                                                                                                                                                                                       | February 2016                          | Quarterly                                          |
| <b>Detailed River Network Lines</b><br>Environment Agency - Head Office                                                                                                                                                                         | March 2012                             | Annually                                           |
| <b>Detailed River Network Offline Drainage</b><br>Environment Agency - Head Office                                                                                                                                                              | March 2012                             | Annually                                           |
| <b>BGS Groundwater Flooding Susceptibility</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                           | May 2013                               | Annually                                           |
| Waste                                                                                                                                                                                                                                           | Version                                | Update Cycle                                       |
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                       | June 1996                              | Not Applicable                                     |
| <b>Historical Landfill Sites</b><br>Environment Agency - Head Office                                                                                                                                                                            | May 2016                               | Quarterly                                          |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - Southern Region                                                                                                                                              | October 2008                           | Not Applicable                                     |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                            | May 2016<br>May 2016                   | Quarterly<br>Quarterly                             |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Environment Agency - South East Region - Kent & South London Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex | April 2016<br>April 2016<br>April 2016 | Quarterly<br>Quarterly<br>Quarterly                |
| <b>Local Authority Landfill Coverage</b><br>Dartford Borough Council - Environmental Health Department<br>Kent County Council - Waste Management Group<br>Sevenoaks District Council                                                            | May 2000<br>May 2000<br>May 2000       | Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Local Authority Recorded Landfill Sites</b><br>Dartford Borough Council - Environmental Health Department<br>Kent County Council - Waste Management Group<br>Sevenoaks District Council                                                      | May 2000<br>May 2000<br>May 2000       | Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Registered Landfill Sites</b><br>Environment Agency - Southern Region - Kent Area                                                                                                                                                            | March 2003                             | Not Applicable                                     |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency - Southern Region - Kent Area                                                                                                                                                      | March 2003                             | Not Applicable                                     |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency - Southern Region - Kent Area                                                                                                                                         | March 2003                             | Not Applicable                                     |

| Hazardous Substances                                                                                                                            | Version                                       | Update Cycle                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive                                                           | February 2016                                 | Bi-Annually                                                             |
| <b>Explosive Sites</b><br>Health and Safety Executive                                                                                           | February 2016                                 | Bi-Annually                                                             |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive                                       | November 2000                                 | Not Applicable                                                          |
| <b>Planning Hazardous Substance Enforcements</b><br>Sevenoaks District Council<br>Dartford Borough Council<br>Kent County Council               | February 2016<br>January 2016<br>January 2016 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Planning Hazardous Substance Consents</b><br>Sevenoaks District Council<br>Dartford Borough Council<br>Kent County Council                   | February 2016<br>January 2016<br>January 2016 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| Geological                                                                                                                                      | Version                                       | Update Cycle                                                            |
| <b>BGS 1:625,000 Solid Geology</b><br>British Geological Survey - National Geoscience Information Service                                       | January 2009                                  | Not Applicable                                                          |
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service                                        | May 2016                                      | Bi-Annually                                                             |
| <b>Brine Compensation Area</b><br>Cheshire Brine Subsidence Compensation Board                                                                  | August 2011                                   | Not Applicable                                                          |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Property Searches                                                                     | March 2014                                    | As notified                                                             |
| <b>Mining Instability</b><br>Ove Arup & Partners                                                                                                | October 2000                                  | Not Applicable                                                          |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                            | May 2015                                      | Not Applicable                                                          |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                | June 2015                                     | Annually                                                                |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service               | June 2015                                     | Annually                                                                |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                | June 2015                                     | Annually                                                                |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                  | June 2015                                     | Annually                                                                |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service               | June 2015                                     | Annually                                                                |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service | June 2015                                     | Annually                                                                |
| <b>Radon Potential - Radon Affected Areas</b><br>British Geological Survey - National Geoscience Information Service                            | July 2011                                     | As notified                                                             |
| <b>Radon Potential - Radon Protection Measures</b><br>British Geological Survey - National Geoscience Information Service                       | July 2011                                     | As notified                                                             |

| Industrial Land Use                                                                                           | Version                      | Update Cycle               |
|---------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------|
| <b>Contemporary Trade Directory Entries</b><br>Thomson Directories                                            | April 2016                   | Quarterly                  |
| <b>Fuel Station Entries</b><br>Catalist Ltd - Experian                                                        | February 2016                | Quarterly                  |
| <b>Gas Pipelines</b><br>National Grid                                                                         | July 2014                    | Quarterly                  |
| <b>Underground Electrical Cables</b><br>National Grid                                                         | January 2016                 | Bi-Annually                |
| Sensitive Land Use                                                                                            | Version                      | Update Cycle               |
| <b>Ancient Woodland</b><br>Natural England                                                                    | June 2015                    | Bi-Annually                |
| <b>Areas of Adopted Green Belt</b><br>Dartford Borough Council<br>Sevenoaks District Council                  | May 2016<br>May 2016         | As notified<br>As notified |
| <b>Areas of Unadopted Green Belt</b><br>Dartford Borough Council<br>Sevenoaks District Council                | November 201<br>November 201 | As notified<br>As notified |
| <b>Areas of Outstanding Natural Beauty</b><br>Natural England                                                 | April 2016                   | Bi-Annually                |
| <b>Environmentally Sensitive Areas</b><br>Natural England                                                     | April 2016                   | Annually                   |
| <b>Forest Parks</b><br>Forestry Commission                                                                    | April 1997                   | Not Applicable             |
| <b>Local Nature Reserves</b><br>Natural England                                                               | April 2016                   | Bi-Annually                |
| <b>Marine Nature Reserves</b><br>Natural England                                                              | April 2016                   | Bi-Annually                |
| <b>National Nature Reserves</b><br>Natural England                                                            | April 2016                   | Bi-Annually                |
| <b>National Parks</b><br>Natural England                                                                      | March 2016                   | Bi-Annually                |
| <b>Nitrate Sensitive Areas</b><br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)  | April 2016                   | Not Applicable             |
| <b>Nitrate Vulnerable Zones</b><br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) | October 2015                 | Annually                   |
| <b>Ramsar Sites</b><br>Natural England                                                                        | April 2016                   | Bi-Annually                |
| <b>Sites of Special Scientific Interest</b><br>Natural England                                                | April 2016                   | Bi-Annually                |
| <b>Special Areas of Conservation</b><br>Natural England                                                       | April 2016                   | Bi-Annually                |
| <b>Special Protection Areas</b><br>Natural England                                                            | April 2016                   | Bi-Annually                |
| <b>World Heritage Sites</b><br>English Heritage - National Monument Record Centre                             | September 2015               | Bi-Annually                |



A selection of organisations who provide data within this report

| Data Supplier                          | Data Supplier Logo                                                                                                                                                    |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordnance Survey                        |                                                                                    |
| Environment Agency                     |                                                                                    |
| Scottish Environment Protection Agency |                                                                                    |
| The Coal Authority                     |                                                                                    |
| British Geological Survey              |  <b>British Geological Survey</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL          |
| Centre for Ecology and Hydrology       |  <b>Centre for Ecology &amp; Hydrology</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL |
| Natural Resources Wales                |                                                                                   |
| Scottish Natural Heritage              |                                                                                  |
| Natural England                        |                                                                                  |
| Public Health England                  |                                                                                  |
| Ove Arup                               |                                                                                  |
| Peter Brett Associates                 |                                                                                  |

| Contact | Name and Address                                                                                                                                                  | Contact Details                                                                                                                                                                                                                      |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Kingsley Dunham Centre, Keyworth,<br>Nottingham, Nottinghamshire, NG12 5GG       | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a><br>Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>                                                   |
| 2       | <b>Environment Agency - National Customer Contact Centre (NCCC)</b><br>PO Box 544, Templeborough, Rotherham, S60 1BY                                              | Telephone: 03708 506 506<br>Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>                                                                                                      |
| 3       | <b>Dartford Borough Council - Environmental Health Department</b><br>Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR                                          | Telephone: 01322 343233<br>Fax: 01322 343963<br>Website: <a href="http://www.dartford.gov.uk">www.dartford.gov.uk</a>                                                                                                                |
| 4       | <b>Kent County Council - Waste Management Group</b><br>Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT                                                | Telephone: 01622 605976<br>Website: <a href="http://www.kent.gov.uk">www.kent.gov.uk</a>                                                                                                                                             |
| 5       | <b>Peter Brett Associates</b><br>Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN                                                              | Telephone: 0118 950 0761<br>Fax: 0118 959 7498<br>Email: <a href="mailto:reading@pba.co.uk">reading@pba.co.uk</a><br>Website: <a href="http://www.pba.co.uk">www.pba.co.uk</a>                                                       |
| 7       | <b>Natural England</b><br>County Hall, Spetchley Road, Worcester, WR5 2NP                                                                                         | Telephone: 0300 060 3900<br>Email: <a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a><br>Website: <a href="http://www.naturalengland.org.uk">www.naturalengland.org.uk</a>                         |
| 8       | <b>Dartford Borough Council</b><br>Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR                                                                            | Telephone: 01322 343434<br>Fax: 01322 343047<br>Website: <a href="http://www.dartford.gov.uk">www.dartford.gov.uk</a>                                                                                                                |
| 9       | <b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b><br>Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT | Telephone: 0113 2613333<br>Fax: 0113 230 0879                                                                                                                                                                                        |
| -       | <b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b><br>Chilton, Didcot, Oxfordshire, OX11 0RQ                   | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: <a href="mailto:radon@phe.gov.uk">radon@phe.gov.uk</a><br>Website: <a href="http://www.ukradon.org">www.ukradon.org</a>                                                       |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                                  | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a><br>Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a> |

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

## Groundwater Vulnerability

**General**  
 Specified Site  Specified Buffer(s)  Bearing Reference Point   
 Slice  Map ID 

### Agency and Hydrological

#### Geological Classes

**Major Aquifer  
(Highly Permeable)**

High (H) 1, 2, 3, U  
 Intermediate (I) 1, 2  
 Low

#### Soil Classes

High (H) 1, 2, 3, U  
 Intermediate (I) 1, 2  
 Low

**Minor Aquifer  
(Variably Permeable)**

High (H) 1, 2, 3, U  
 Intermediate (I) 1, 2  
 Low

**Non Aquifer  
(Negligibly Permeable)**

High (H) 1, 2, 3, U  
 Intermediate (I) 1, 2  
 Low

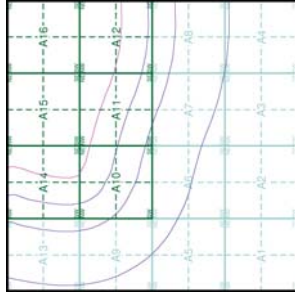
**Water or Sea**

High (H) 1, 2, 3, U  
 Intermediate (I) 1, 2  
 Low

**Drift Deposit**

High (H) 1, 2, 3, U  
 Intermediate (I) 1, 2  
 Low

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 88304408.1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172940  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF



## Bedrock Aquifer Designation

### General

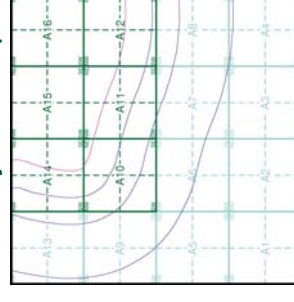
- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 88304408 1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172940  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
Kent, DA10 0DF

## Superficial Aquifer Designation

### General

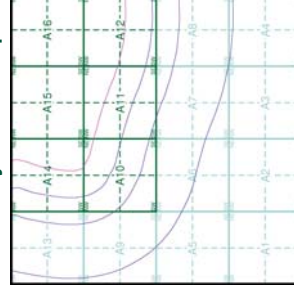
-  Specified Site
-  Specified Buffer(s)
-  Map ID
-  Bearing Reference Point

### Agency and Hydrological

#### Geological Classes

-  Principal Aquifer
-  Secondary A Aquifer
-  Secondary B Aquifer
-  Secondary Undifferentiated
-  Unproductive Strata
-  Unknown
-  Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 88304408.1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172940  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF



## Source Protection Zones

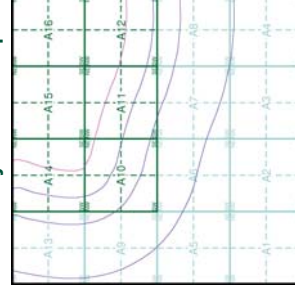
### General

- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

### Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special Interest (Zone 4)
- Source Protection Zone Borehole

## Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 88304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF



## Sensitive Land Uses

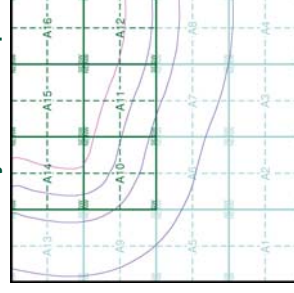
### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

### Sensitive Land Uses

-  Ancient Woodland
-  Area of Adopted Green Belt
-  Area of Unadopted Green Belt
-  Area of Outstanding Natural Beauty
-  Environmentally Sensitive Area
-  Forest Park
-  Local Nature Reserve
-  Marine Nature Reserve
-  National Nature Reserve
-  National Park
-  Nitrate Sensitive Area
-  Nitrate Vulnerable Zone
-  Ramsar Site
-  Site of Special Scientific Interest
-  Special Area of Conservation
-  Special Protection Area
-  World Heritage Sites

## Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 88304408.1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF



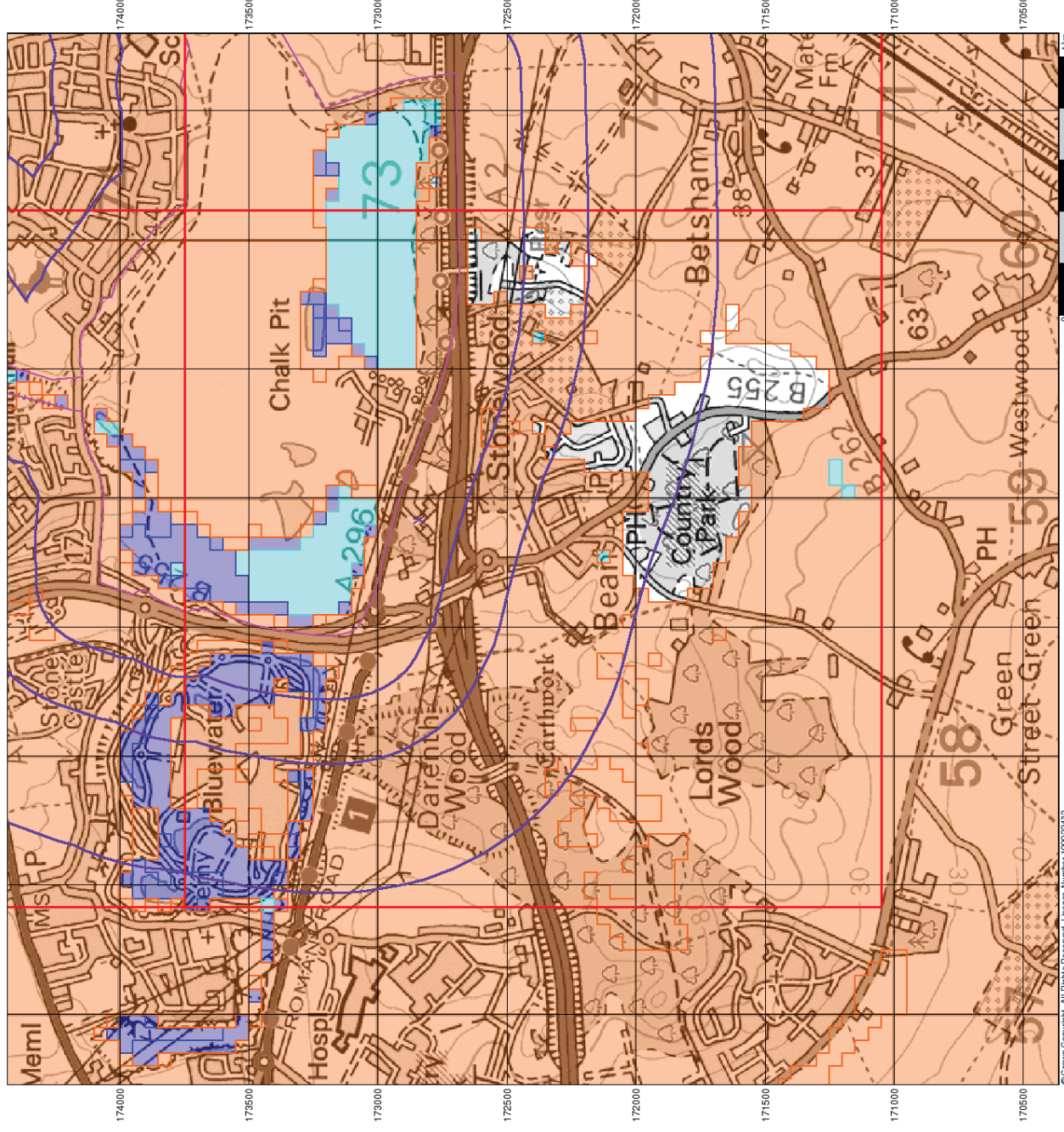
## BGS Flood GFS Data

### General

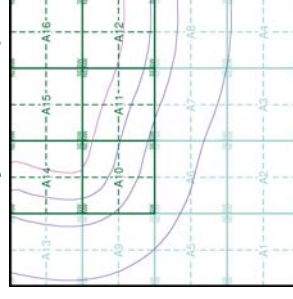
-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice

### Agency and Hydrological (Flood)

-  Limited Potential for Groundwater Flooding to Occur
-  Potential for Groundwater Flooding of Property Situated Below Ground Level
-  Potential for Groundwater Flooding to Occur at Surface



## Site Sensitivity Context Map - Slice A



## Order Details

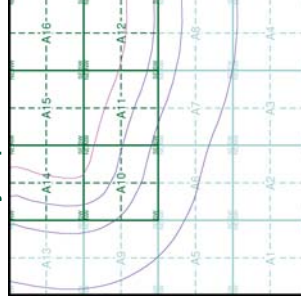
Order Number: 88304408.1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

## Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF

- General**
- Specified Site
  - Several of Type at Location
  - Bearing Reference Point
  - Map ID
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Geological**
- BOS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Waste**
- BOS Recorded Landfill Site (Location)
  - BOS Recorded Landfill Site
  - EA Historic Landfill (Refused Refuse)
  - EA Historic Landfill (Refuse)
  - Integrated Pollution Control Registered
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Refuse Refused to (Item))
  - Registered Landfill Site (Refuse Refused to (Item))
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



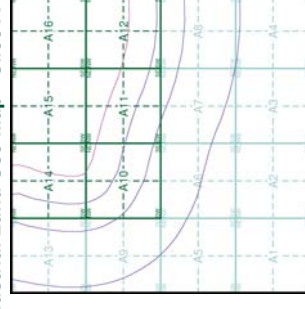
Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 1000           |

## Site Details

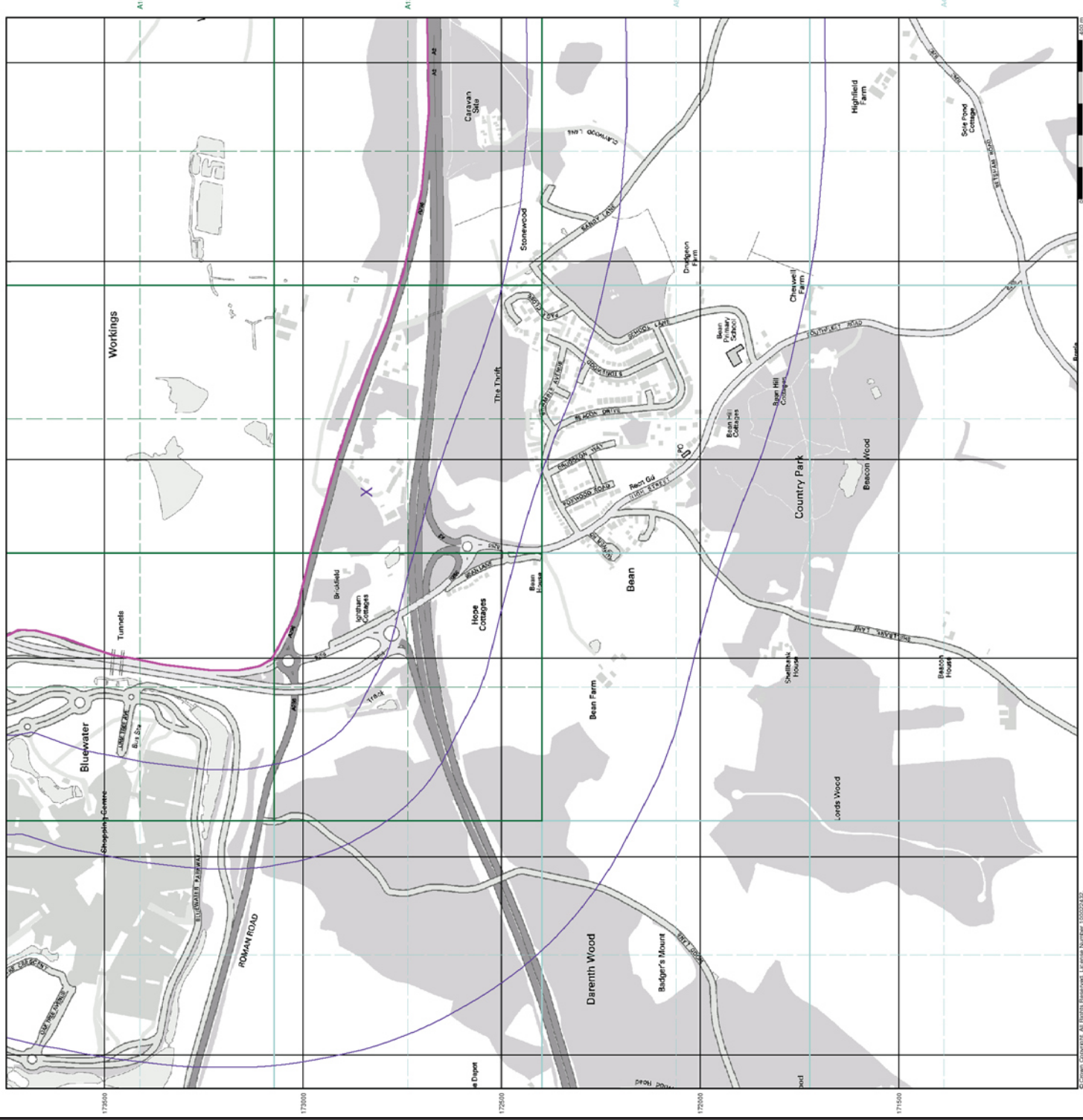
**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

## General

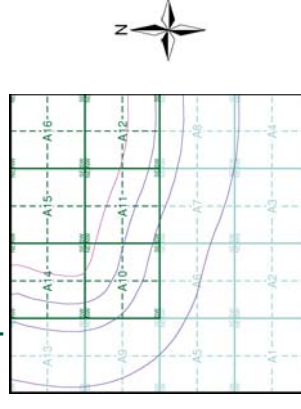
-  Specified Site  
 Specified Buffer(s)  
 Bearing Reference Point

## Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence



## Flood Map - Slice A



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 1000           |

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



- General**
- Specified Site
  - Specified Buffer(s)
  - X Bearing Reference Point
  - Map ID
  - Several of Type at Location

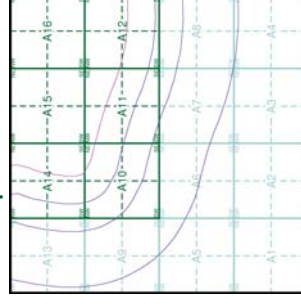
**Agency and Hydrological (Boreholes)**

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

**Borehole Map - Slice A**

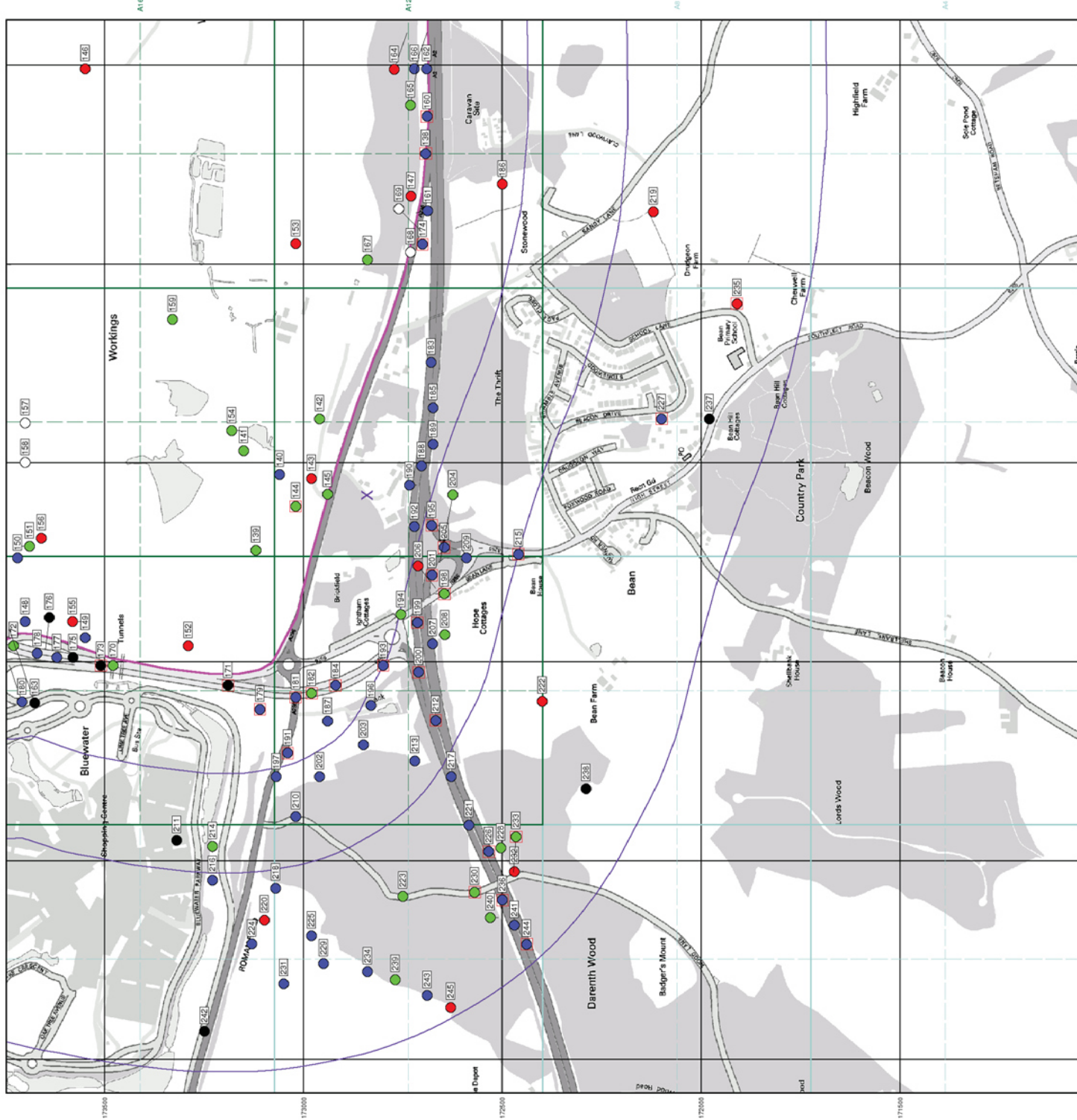


**Order Details**

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





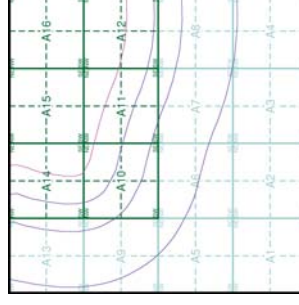
### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID

### Detailed River Network Data

-  Primary River
-  Secondary River
-  Tertiary River
-  Canal
-  Canal Tunnel
-  Undefined River
-  Lake/Reservoir
-  Offline Drainage Feature
-  Extended Culvert (greater than 50m)
-  Underground River (inferred)
-  Underground River (local knowledge)
-  Downstream of High Water Mark
-  Not assigned River feature

### EANRW Detailed River Network Map - Slice A

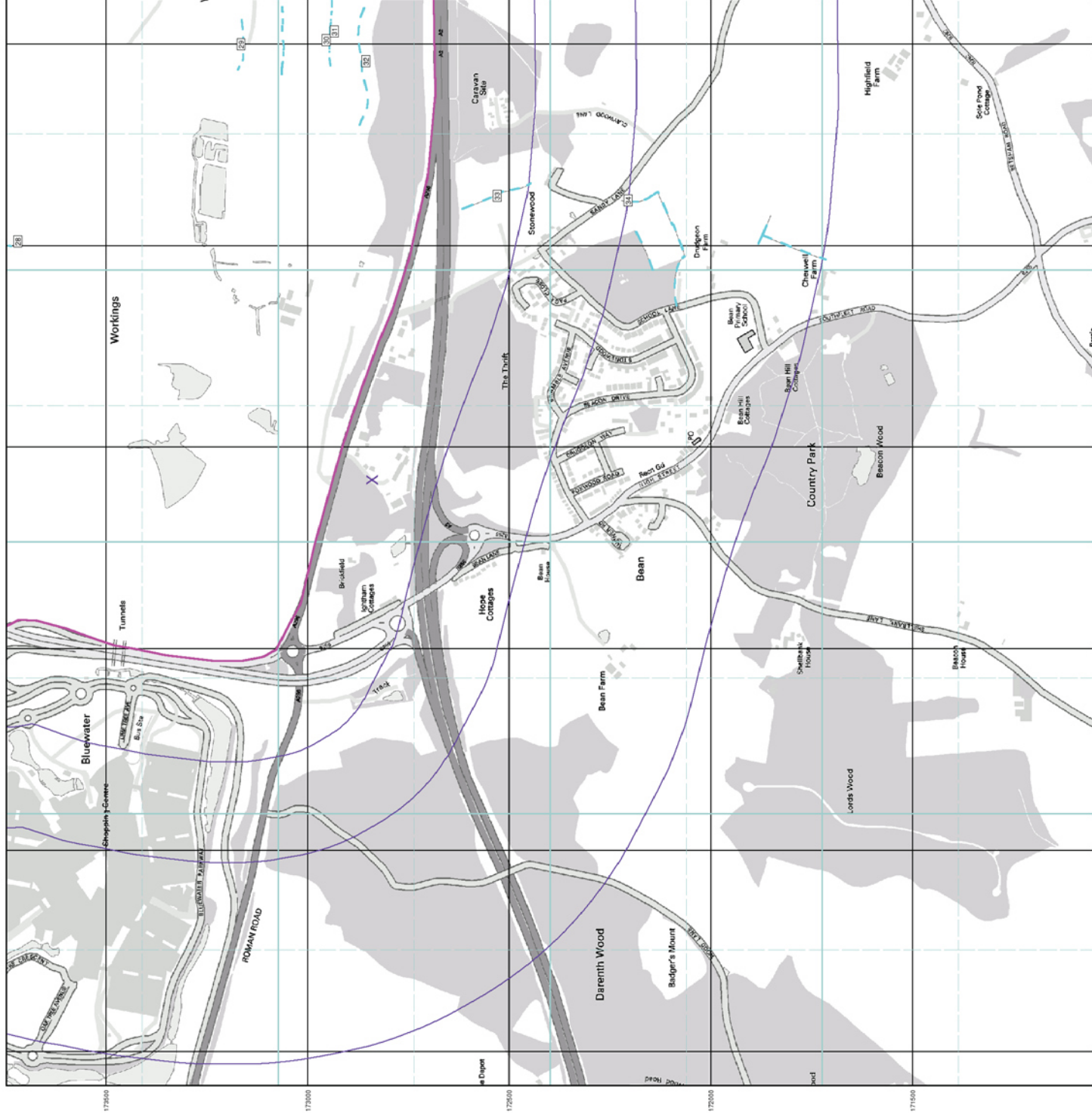


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



## **Envirocheck<sup>®</sup> Report:**

### **Historical Data Report Datasheet**

#### **Order Details:**

**Order Number:**

89304408\_1\_1

**Customer Reference:**

250122/00

**National Grid Reference:**

558920, 172840

**Slice:**

A

**Site Area (Ha):**

272.38

**Search Buffer (m):**

1000

#### **Site Details:**

Barton Wilmore, The Observatory  
Southfleet Road  
SWANSCOMBE  
Kent  
DA10 0DF

#### **Client Details:**

Mr P Measham  
Ove Arup & Partners International Ltd  
13 Fitzroy Street  
London  
W1T 4BQ

| Report Section                          | Page Number |
|-----------------------------------------|-------------|
| Summary                                 | -           |
| Historical Building Plans Information   | -           |
| Historical Land Use Information         | 1           |
| Historical Tanks and Energy Facilities  | 3           |
| Historical Map List                     | 4           |
| Useful Contacts and Further Information | 6           |

## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

## Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer. A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

## Report Version v50.0



| Data Type                                                 | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m |
|-----------------------------------------------------------|-------------|---------|-----------|-------------|--------------|
| <b>Historical Building Plans Information</b>              |             |         |           |             |              |
| Areas Cleared Due To Enemy Action                         |             |         |           |             |              |
| Above Ground Fuel Tanks (100m)                            |             |         |           | n/a         | n/a          |
| Asbestos (100m)                                           |             |         |           | n/a         | n/a          |
| Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)      |             |         |           | n/a         | n/a          |
| Electricity Generation (100m)                             |             |         |           | n/a         | n/a          |
| Electricity Sub-Station (100m)                            |             |         |           | n/a         | n/a          |
| Gas Industry (100m)                                       |             |         |           | n/a         | n/a          |
| Gas Storage (100m)                                        |             |         |           | n/a         | n/a          |
| Gas Use (100m)                                            |             |         |           | n/a         | n/a          |
| Oil Industry (100m)                                       |             |         |           | n/a         | n/a          |
| Oil Storage (100m)                                        |             |         |           | n/a         | n/a          |
| Oil Use (100m)                                            |             |         |           | n/a         | n/a          |
| Paint based Oils (100m)                                   |             |         |           | n/a         | n/a          |
| Paraffin (100m)                                           |             |         |           | n/a         | n/a          |
| Petrol and Diesel Industry (100m)                         |             |         |           | n/a         | n/a          |
| Petrol and Diesel Storage (100m)                          |             |         |           | n/a         | n/a          |
| Petrol and Diesel Use (100m)                              |             |         |           | n/a         | n/a          |
| Potential Fuel Gas (100m)                                 |             |         |           | n/a         | n/a          |
| Potential Fuel Oil (100m)                                 |             |         |           | n/a         | n/a          |
| Potential Fuel Use (100m)                                 |             |         |           | n/a         | n/a          |
| Potential Petrol and Diesel (100m)                        |             |         |           | n/a         | n/a          |
| Potential Tanks (100m)                                    |             |         |           | n/a         | n/a          |
| Potentially Fuel-related Tanks (100m)                     |             |         |           | n/a         | n/a          |
| Underground Fuel Tanks (100m)                             |             |         |           | n/a         | n/a          |
| <b>Historical Land Use Information</b>                    |             |         |           |             |              |
| Former Marshes                                            |             |         |           |             |              |
| Historical Flood Liabilities                              |             |         |           |             |              |
| Potentially Contaminative Industrial Uses (Past Land Use) | pg 1        | 7       | 7         |             | 3            |
| Potentially Infilled Land (Non-Water)                     | pg 1        | 1       | 3         |             | 2            |
| Potentially Infilled Land (Water)                         |             |         |           |             |              |

| Data Type                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m |
|-----------------------------------------------|-------------|---------|-----------|-------------|--------------|
| <b>Historical Tanks and Energy Facilities</b> |             |         |           |             |              |
| Electrical Sub Station Facilities (100m)      |             |         |           | n/a         | n/a          |
| Electricity Industry Facilities (100m)        |             |         |           | n/a         | n/a          |
| Gas Industry Facilities (100m)                |             |         |           | n/a         | n/a          |
| Gas Monitoring Facilities (100m)              |             |         |           | n/a         | n/a          |
| Miscellaneous Power Facilities (100m)         |             |         |           | n/a         | n/a          |
| Oil Industry Facilities (100m)                |             |         |           | n/a         | n/a          |
| Petroleum Storage Facilities (100m)           |             |         |           | n/a         | n/a          |
| Potential Tanks (100m)                        |             |         |           | n/a         | n/a          |
| Tanks (100m)                                  | pg 3        | 4       |           | n/a         | n/a          |

| Map ID | Details                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 1      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1898        | A14NE (NW)                             | 0                            | 1       | 558610 173462 |
| 2      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: General quarrying<br>Date of Mapping: 1961                                                | A15SE (NE)                             | 0                            | 1       | 559153 173376 |
| 3      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1991        | A12NW (E)                              | 0                            | 1       | 559467 172782 |
| 4      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1938        | A12NW (E)                              | 0                            | 1       | 559583 173062 |
| 5      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1992        | A11NW (N)                              | 0                            | 1       | 558951 172984 |
| 6      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Clay bricks & tiles [manufacture]<br>Date of Mapping: 1910                                | A11NW (N)                              | 0                            | 1       | 558945 172998 |
| 7      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Factory or works - use not specified<br>Date of Mapping: 1992                             | A11NE (E)                              | 0                            | 1       | 559167 172936 |
| 8      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1898        | A11NW (NW)                             | 2                            | 1       | 558840 172958 |
| 9      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Clay bricks & tiles [manufacture]<br>Date of Mapping: 1910 - 1961                         | A10NE (W)                              | 13                           | 1       | 558683 172847 |
| 10     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1938 - 1992 | A10NE (NW)                             | 24                           | 1       | 558449 173073 |
| 11     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1961        | A12SW (E)                              | 30                           | 1       | 559757 172631 |
| 12     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: General quarrying<br>Date of Mapping: 1898                                                | A10NE (W)                              | 93                           | 1       | 558750 172888 |
| 13     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1898        | A14SW (W)                              | 220                          | 1       | 558256 173115 |
| 13     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Cement, lime & plaster products [manufacture]<br>Date of Mapping: 1872                    | A14SW (NW)                             | 228                          | 1       | 558245 173131 |
| 14     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1961        | A7SW (S)                               | 895                          | 1       | 558977 171953 |
| 15     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1898        | A6NW (SW)                              | 936                          | 1       | 558202 172177 |
| 16     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Weapons & ammunition [manufacture and storage]<br>Date of Mapping: 1898 - 1938            | A7SE (S)                               | 959                          | 1       | 559276 171809 |
| 17     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1996                                              | A14NE (NW)                             | 0                            | 1       | 558612 173464 |
| 18     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1996                                              | A11NW (NW)                             | 7                            | 1       | 558831 172955 |
| 19     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1992                                              | A12SW (E)                              | 30                           | 1       | 559757 172631 |
| 20     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1992                                              | A11NW (W)                              | 30                           | 1       | 558778 172884 |



| Map ID | Details                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 21     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1992 | A7SW (S)                               | 895                          | 1       | 558977 171953 |
| 22     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1992 | A6NW (SW)                              | 936                          | 1       | 558202 172177 |

| Map ID | Details                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 23     | <b>Tanks</b><br>Scale of Mapping: 1:2,500<br>Date of Mapping: 1978 | A12NW (E)                              | 0                            | 1       | 559486<br>173009 |
| 24     | <b>Tanks</b><br>Scale of Mapping: 1:2,500<br>Date of Mapping: 1972 | A11NE (E)                              | 0                            | 1       | 559428<br>172847 |
| 25     | <b>Tanks</b><br>Scale of Mapping: 1:2,500<br>Date of Mapping: 1972 | A12NW (E)                              | 0                            | 1       | 559461<br>172853 |
| 26     | <b>Tanks</b><br>Scale of Mapping: 1:2,500<br>Date of Mapping: 1972 | A12NW (E)                              | 0                            | 1       | 559447<br>172934 |

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

| 1:10,560             | Mapsheet | Published Date |
|----------------------|----------|----------------|
| Kent                 | 010_00   | 1869           |
| Essex                | 088_00   | 1872           |
| Kent                 | 009_NE   | 1898           |
| Kent                 | 009_SE   | 1898           |
| Kent                 | 010_NW   | 1898           |
| Kent                 | 010_SW   | 1898           |
| Essex                | 088_NE   | 1898           |
| Kent                 | 010_SW   | 1909           |
| Kent                 | 009_NE   | 1910           |
| Kent                 | 010_NW   | 1910           |
| Essex                | 095_SW   | 1923           |
| Kent                 | 009_NE   | 1938           |
| Kent                 | 009_SE   | 1938           |
| Kent                 | 010_SW   | 1938           |
| Kent                 | 010_NW   | 1946           |
| Ordnance Survey Plan | TQ57SE   | 1961           |
| Ordnance Survey Plan | TQ67SW   | 1962           |
| 1:10,000             | Mapsheet | Published Date |
| Ordnance Survey Plan | TQ67SW   | 1991           |
| Ordnance Survey Plan | TQ57SE   | 1992           |



The following mapping has been analysed for Historical Tanks and Energy Facilities:

| 1:2,500              | Mapsheet | Published Date |
|----------------------|----------|----------------|
| Ordnance Survey Plan | TQ6073   | 1961           |
| Ordnance Survey Plan | TQ6073   | 1961           |
| Ordnance Survey Plan | TQ6072   | 1962           |
| Ordnance Survey Plan | TQ5872   | 1963           |
| Ordnance Survey Plan | TQ5872   | 1963           |
| Ordnance Survey Plan | TQ5873   | 1963           |
| Ordnance Survey Plan | TQ5873   | 1963           |
| Ordnance Survey Plan | TQ5873   | 1963           |
| Ordnance Survey Plan | TQ5873   | 1963           |
| Ordnance Survey Plan | TQ5972   | 1963           |
| Ordnance Survey Plan | TQ5972   | 1963           |
| Ordnance Survey Plan | TQ5973   | 1963           |
| Ordnance Survey Plan | TQ5973   | 1963           |
| Ordnance Survey Plan | TQ5973   | 1963           |
| Ordnance Survey Plan | TQ5973   | 1963           |
| Ordnance Survey Plan | TQ6072   | 1968           |
| Ordnance Survey Plan | TQ6073   | 1970           |
| Ordnance Survey Plan | TQ6073   | 1970           |
| Ordnance Survey Plan | TQ5872   | 1972           |
| Ordnance Survey Plan | TQ5872   | 1972           |
| Ordnance Survey Plan | TQ5972   | 1972           |
| Ordnance Survey Plan | TQ5972   | 1972           |
| Ordnance Survey Plan | TQ5973   | 1978           |
| Ordnance Survey Plan | TQ5973   | 1978           |
| Ordnance Survey Plan | TQ5973   | 1978           |
| Ordnance Survey Plan | TQ5973   | 1978           |
| Ordnance Survey Plan | TQ6073   | 1986           |
| Ordnance Survey Plan | TQ6073   | 1986           |

| Contact | Name and Address                                                                                 | Contact Details                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: <a href="mailto:customerservices@landmark.co.uk">customerservices@landmark.co.uk</a><br>Website: <a href="http://www.landmark.co.uk">www.landmark.co.uk</a> |

### Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

### Historical Land Use Information

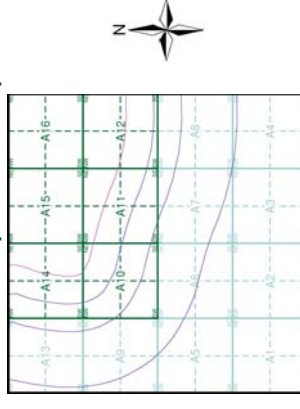
Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

### Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.



## Historical Data Report - Slice Map A



## Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 559920, 172840  
A  
Slice: 272.38  
Site Area (Ha): 1000  
Search Buffer (m):

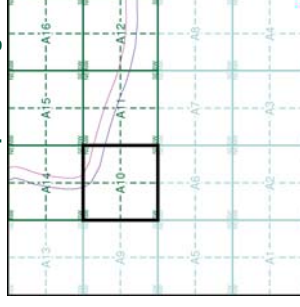
## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



- General**
- Specified Site
  - Several of Type at Location
  - Bearing Reference Point
  - Map ID
- Historical Building Plans**
- Area Cleared due to Enemy Action
  - Asbestos
  - Above Ground Fuel Tanks
  - Benzene/Benzocyclohexene
  - Naphthalene/Kerosene
  - Electricity Generation
  - Electricity Sub-Stations
  - Gas Industry
  - Gas Storage
  - Gas Use
  - Oil Industry
  - Oil Storage
  - Oil Use
  - Paint based Oils
  - Paraffin
  - Petrol and Diesel Industry
  - Petrol and Diesel Storage
  - Petrol and Diesel Use
  - Potential Fuel Gas
  - Potential Fuel Oil
  - Potential Fuel Use
  - Potential Petrol and Diesel
  - Potential Tanks
  - Potentially Fuel-related Tanks
  - Underground Fuel Tanks
- Historical Tanks and Energy Facilities**
- Electrical Sub Station Facility
  - Electricity Industry Facility
  - Gas Industry Facility
  - Gas Monitoring Facility
  - Miscellaneous Power Facility
  - Oil Industry Facility
  - Petroleum Storage Facility
  - Potential Tank
  - Tank

## Historical Data Report - Segment A10

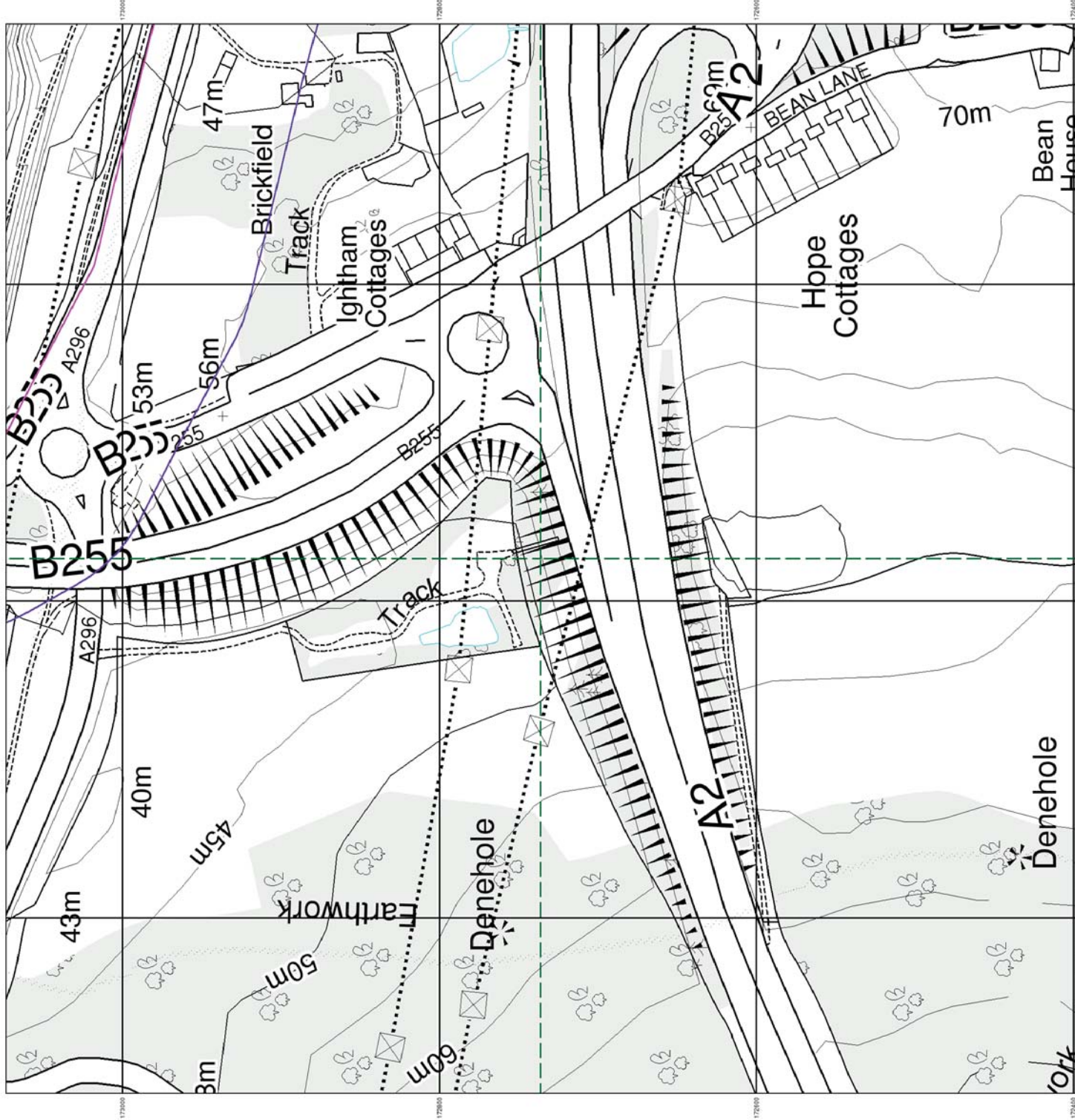


### Order Details

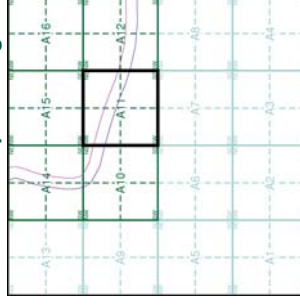
Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Plot Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Historical Data Report - Segment A11



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Plot Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

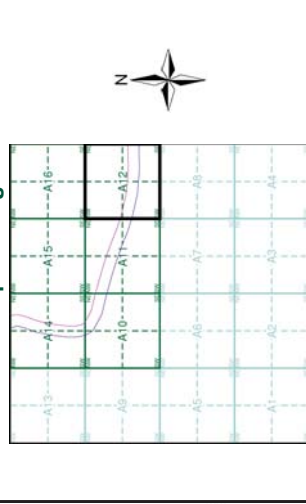


**Historical Building Plans**      **Historical Tanks and Energy Facilities**

 Area Cleared due to Enemy Action

- |                                                  |     |                                 |
|--------------------------------------------------|-----|---------------------------------|
| ▲ Asbestos                                       | (B) | Electrical Sub Station Facility |
| ▲ Above Ground Fuel Tanks                        | (E) | Electricity Industry Facility   |
| ▲ Benzene/Benzol/Naphtaline, Naphtalene/Kerosene | (G) | Gas Industry Facility           |
| ▲ Electricity Generation                         | (J) | Gas Monitoring Facility         |
| ▲ Electricity Sub-Stations                       | (M) | Miscellaneous Power Facility    |
| ▲ Gas Industry                                   | (O) | Oil Industry Facility           |
| ▲ Gas Storage                                    | (S) | Petroleum Storage Facility      |
| ▲ Gas Use                                        | (T) | Potential Tank                  |
| ▲ Oil Industry                                   | (V) | Tank                            |

## Historical Data Report - Segment A12



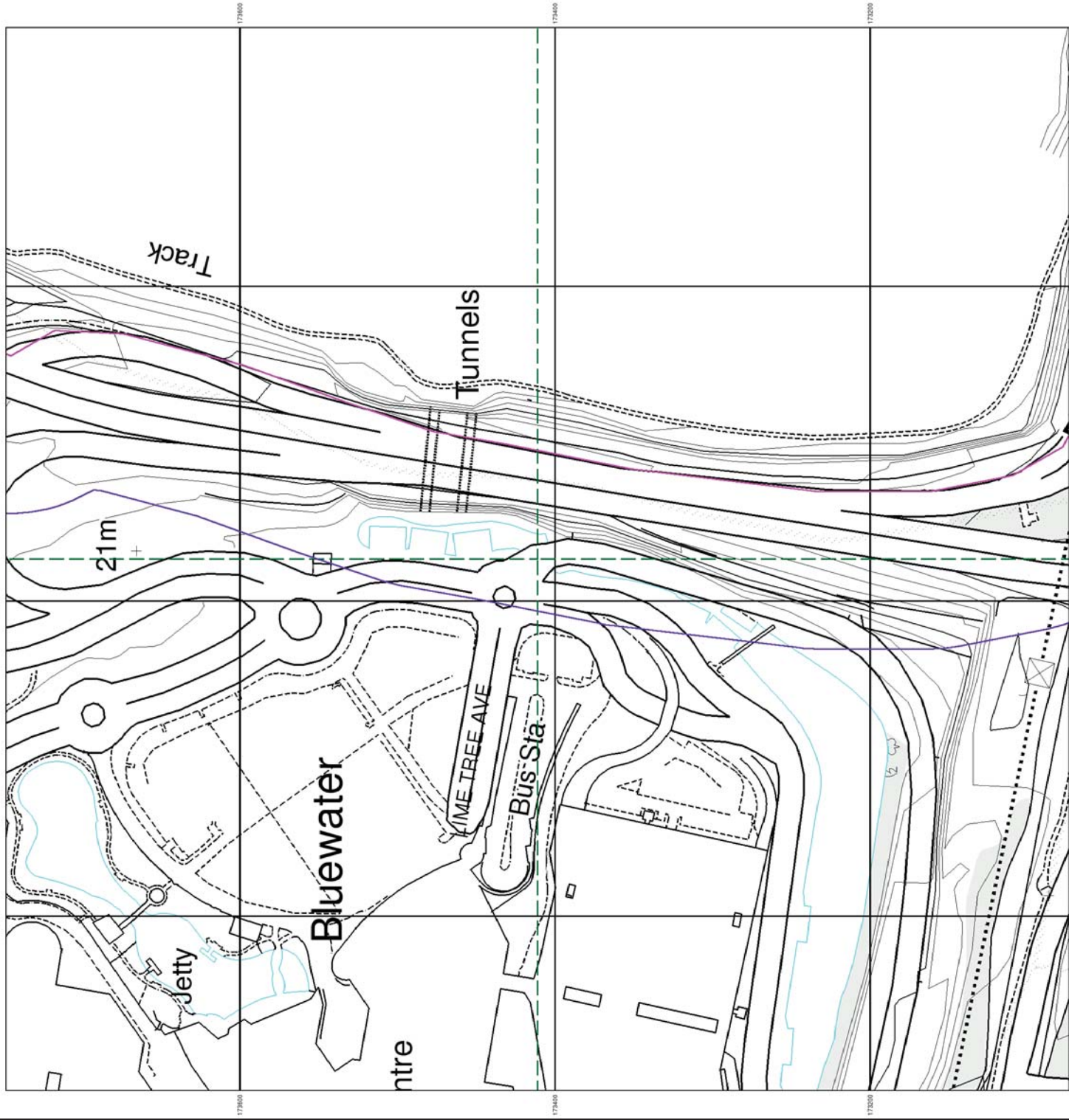
### Order Details

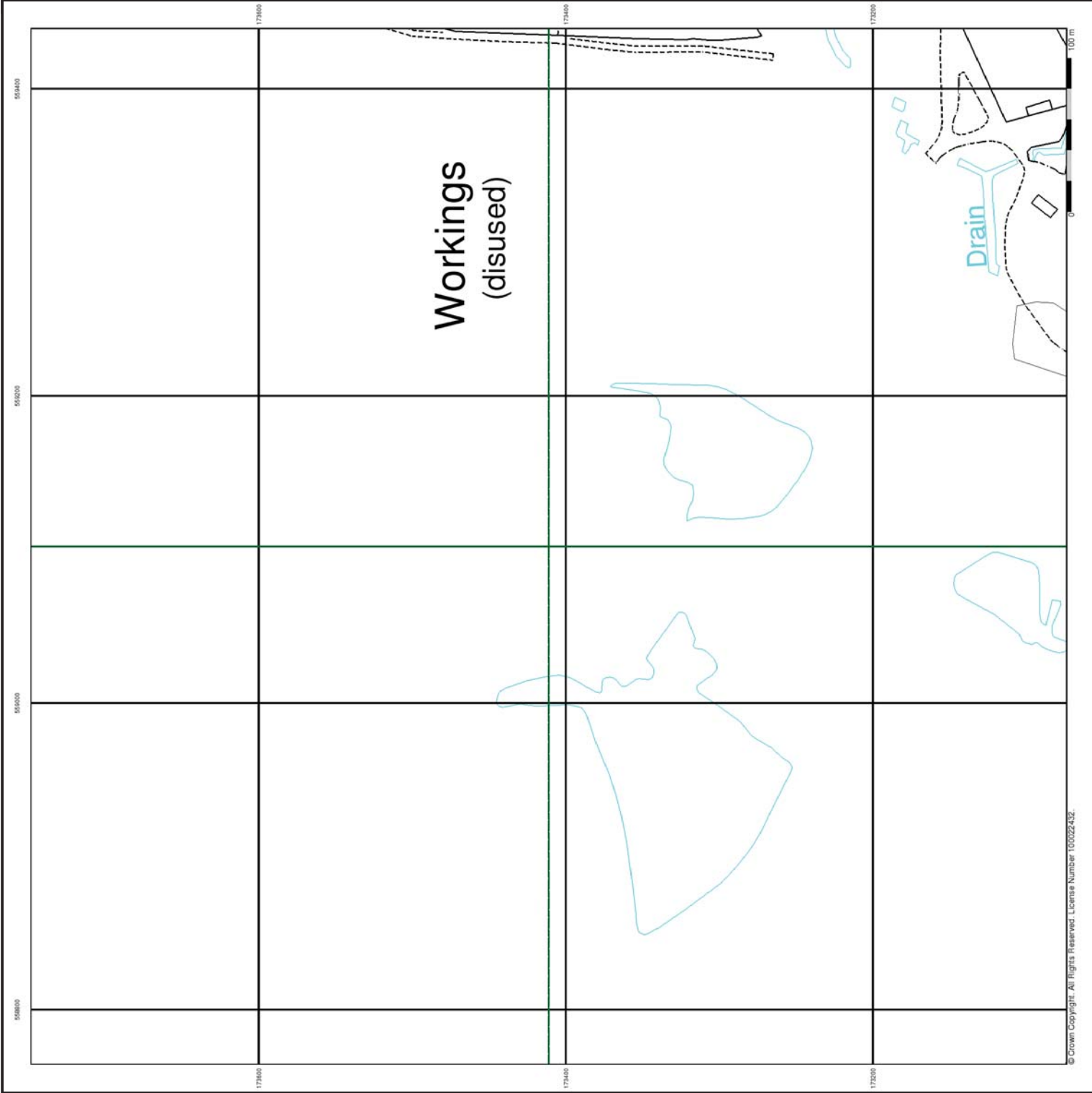
Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 588920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Plot Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE Kent. DA10 0DF







**General**

- Specified Site
- Several of Type at Location
- Bearing Reference Point
- Map ID

**Historical Building Plans**

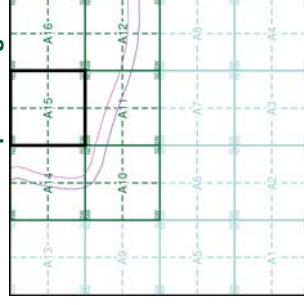
- Area Cleared due to Enemy Action

**Historical Tanks and Energy Facilities**

- Electrical Sub Station Facility
- Electricity Industry Facility
- Gas Industry Facility
- Gas Monitoring Facility
- Miscellaneous Power Facility
- Oil Industry Facility
- Petroleum Storage Facility
- Potential Tank
- Tank

- Asbestos
- Above Ground Fuel Tanks
- Benzene/Benzene/Naphthalene
- Naphthalene/Kerosene
- Electricity Generation
- Electricity Sub-Stations
- Gas Industry
- Gas Storage
- Gas Use
- Oil Industry
- Oil Storage
- Oil Use
- Paint based Oils
- Paraffin
- Petrol and Diesel Industry
- Petrol and Diesel Storage
- Petrol and Diesel Use
- Potential Fuel Gas
- Potential Fuel Oil
- Potential Fuel Use
- Potential Petrol and Diesel
- Potential Tanks
- Potentially Fuel-related Tanks
- Underground Fuel Tanks

**Historical Data Report - Segment A15**

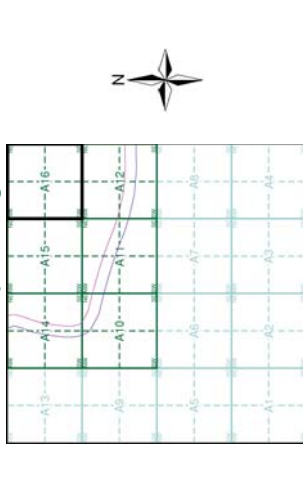


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Plot Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Plot Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Ordnance Survey County Series 1:10,560

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Ordnance Survey Plan 1:10,000

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

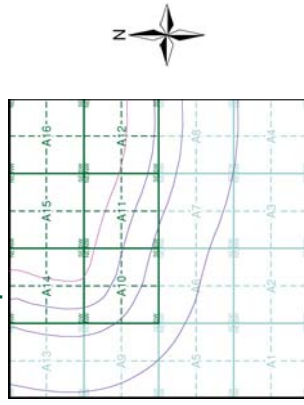
## 1:10,000 Raster Mapping

|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|-------------------------|------------------|----------------------|---------|----------|--------------|--------------------|----------------------|----------------------|-------------------------------------|----------------------------------------------------------|-----------------------------------|------------------------------|-----------------|-------------------|-------|----------------------------|---------------------------|------------------------------|--------------------------------------------|-----------------------------------------------|--------------------------------------|------------------|
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
| Gravel Pit              | Rock             | Boulders             | Shingle | Sand     | Slopes       | General detail     | Overhead detail      | Multi-track railway  | County boundary (England only)      | District, Unitary, Metropolitan, London Borough boundary | Non-confiferous trees (scattered) | Coniferous trees (scattered) | Orchard         | Rough Grassland   | Scrub | Water feature              | Mean high water (springs) | Telephone line (where shown) | Bench mark (where shown)                   | Point feature (e.g. Guide Post or Mile Stone) | Site of (antiquity)                  | General Building |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
| Refuse tip or slag heap | Rock (scattered) | Boulders (scattered) | Mud     | Sand Pit | Top of cliff | Underground detail | Narrow gauge railway | Single track railway | Civil, parish or community boundary | Constituency boundary                                    | Non-confiferous trees             | Coniferous trees             | Positioned tree | Coppice or Osiers | Heath | Marsh, Salt Marsh or Reeds | Flow arrows               | Mean low water (springs)     | Electricity transmission line (with poles) | Triangulation station                         | Pylon, flare stack or lighting tower | Glasshouse       |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    |                      |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |
|                         |                  |                      |         |          |              |                    | </                   |                      |                                     |                                                          |                                   |                              |                 |                   |       |                            |                           |                              |                                            |                                               |                                      |                  |

## Historical Mapping & Photography included:

| Mapping Type         | Scale    | Date        | Pg |
|----------------------|----------|-------------|----|
| Kent                 | 1:10,560 | 1869        | 2  |
| Essex                | 1:10,560 | 1872        | 3  |
| Kent                 | 1:10,560 | 1888        | 4  |
| Essex                | 1:10,560 | 1888        | 5  |
| Kent                 | 1:10,560 | 1909 - 1910 | 6  |
| Essex                | 1:10,560 | 1923        | 7  |
| Kent                 | 1:10,560 | 1931 - 1932 | 8  |
| Kent                 | 1:10,560 | 1938        | 9  |
| Kent                 | 1:10,560 | 1938 - 1951 | 10 |
| Ordnance Survey Plan | 1:10,000 | 1961 - 1962 | 11 |
| Ordnance Survey Plan | 1:10,000 | 1966 - 1967 | 12 |
| Ordnance Survey Plan | 1:10,000 | 1973 - 1974 | 13 |
| Ordnance Survey Plan | 1:10,000 | 1980 - 1984 | 14 |
| Ordnance Survey Plan | 1:10,000 | 1988        | 15 |
| Ordnance Survey Plan | 1:10,000 | 1991 - 1992 | 16 |
| 10K Raster Mapping   | 1:10,000 | 1999        | 17 |
| Street View          | 1:10,000 | 2015        | 18 |

## Historical Map - Slice A



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 589920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

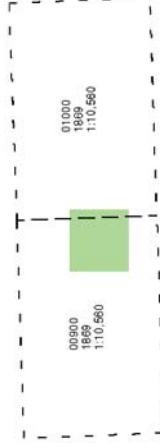
## Site Details

Barton Wilmore, The Observatory, Southfleet Road, SWANSCOMBE, Kent, DA10 0DF

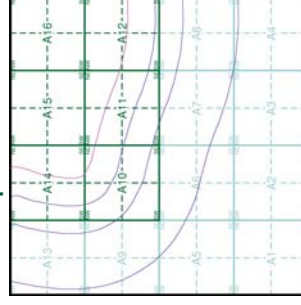


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1840's. In 1864, the Ordnance Survey was established and the maps were used to update the 1:10,560 maps. The published data is then the data often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**



**Historical Map - Slice A**

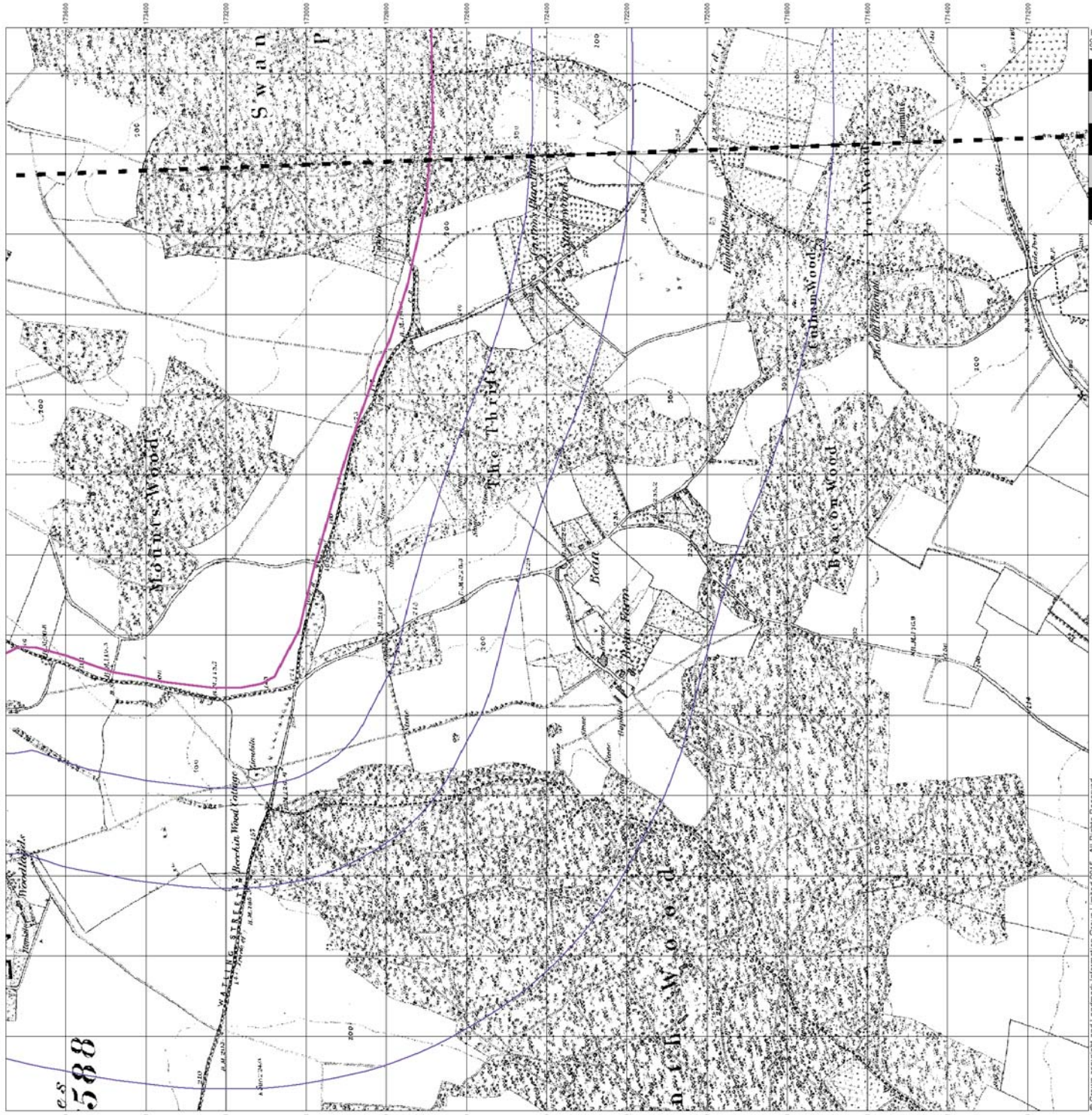


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Essex

### Published 1872

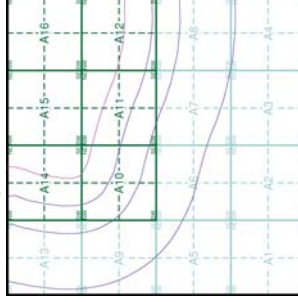
### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:10,560 maps were published. These maps were used to update the 1:10,560 maps. The published data is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

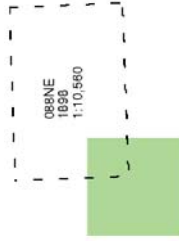
### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

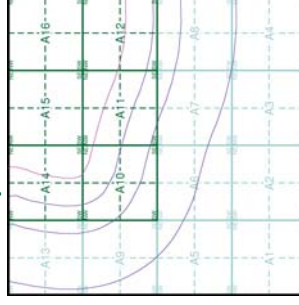


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the Ordnance Survey published the first 1:10,560 scale maps. These maps were used to update the 1:10,560 maps. The published data is then the same as the original data, but the maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

## Kent

### Published 1898

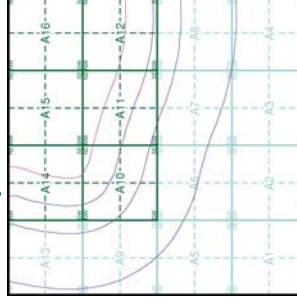
### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, War and Scotland in the 1840's. In 1854, the 1:10,560 maps were published. The 1:10,560 maps were used to update the 1:10,560 maps. The published data is then the same as the original data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|          |          |
|----------|----------|
| 009NE    | 010NW    |
| 1898     | 1898     |
| 1:10,560 | 1:10,560 |
| 009SE    | 010SW    |
| 1898     | 1898     |
| 1:10,560 | 1:10,560 |

### Historical Map - Slice A

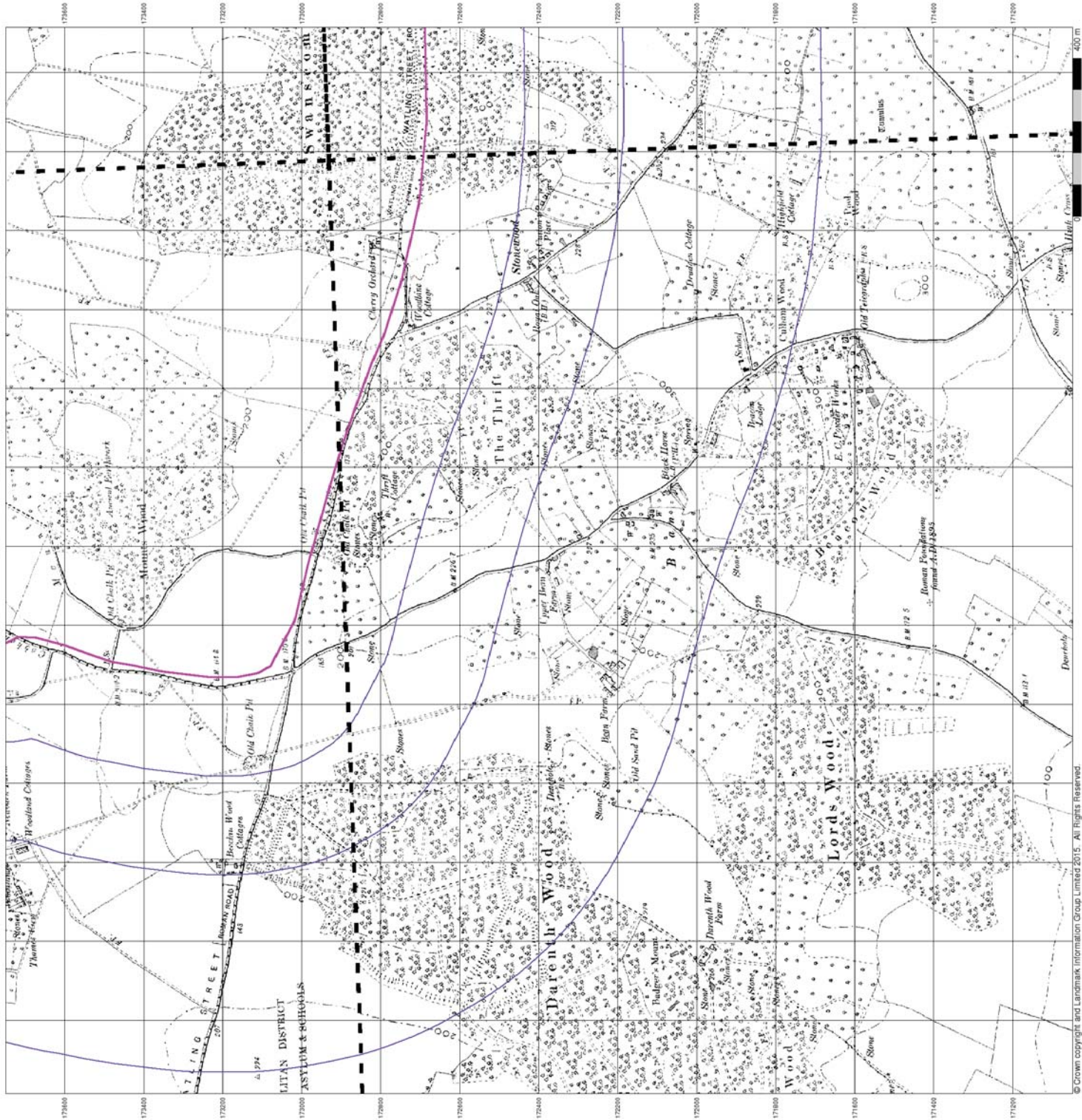


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Kent

### Published 1909 - 1910

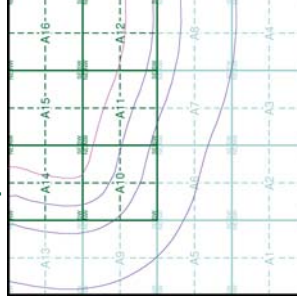
### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, War and Scotland in the 1940's. In 1854, the Ordnance Survey was established and the first maps were used to update the 1:10,560 maps. The published data is then the same as the original data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|          |          |
|----------|----------|
| 009NE    | 010NW    |
| 1910     | 1910     |
| 1:10,560 | 1:10,560 |
| 009SE    | 010SW    |
| 1909     | 1909     |
| 1:10,560 | 1:10,560 |

### Historical Map - Slice A

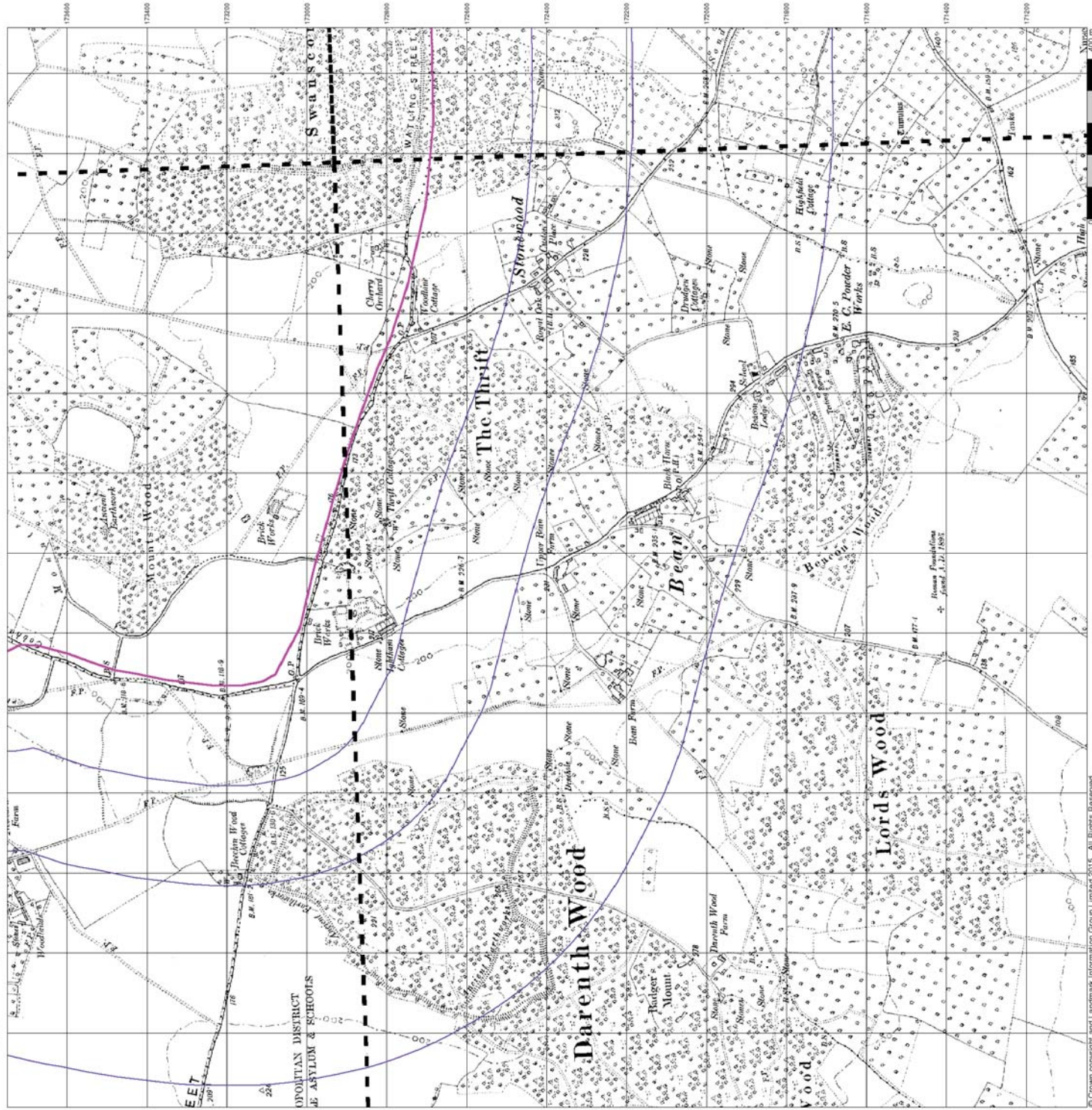


### Order Details

Order Number: 8930408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF







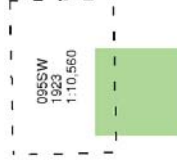
Essex

Published 1923

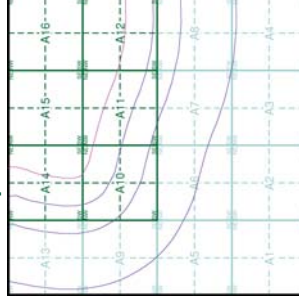
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1854, the first 1:10,560 scale map of Essex was published. These maps are used to update the 1:10,560 maps. The published data is then the same as the original data, often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



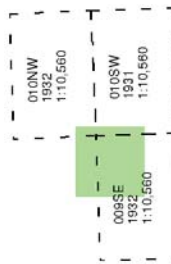
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

## Published 1931 - 1932

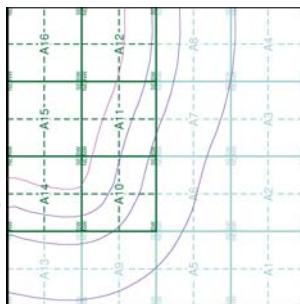
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the TSBG acquired for England, Wales and Scotland in the 1840's. In 1854 there had been 12,500 maps produced for mapping urban areas; these maps were used to update the 1:62,500 scale Ordnance Survey maps. By 1938, all OS maps were based on aerial photography taken by the RAF before 1938. All OS maps were based on the Cassini Projection. Independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlining boundaries. In the late 1940's a Provisional Edition was produced, which updated the 1:62,500 mapping from a number of sources. The maps appear unfinished – with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:62,500 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



### Historical Map - Slice A



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
A  
Slice:  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent. DA10 0DF



## Kent

### Published 1938

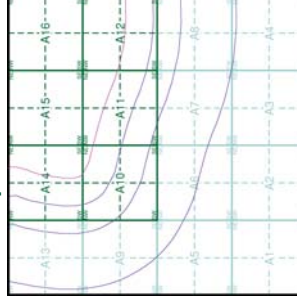
### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, War and Scotland in the 1940's. In 1854, the first OS map of Kent was published. The maps were used to update the 1:10,560 maps. The published data were often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|          |          |
|----------|----------|
| 009NE    | 010NW    |
| 1938     | 1938     |
| 1:10,560 | 1:10,560 |
| 009SE    | 010SW    |
| 1938     | 1938     |
| 1:10,560 | 1:10,560 |

### Historical Map - Slice A

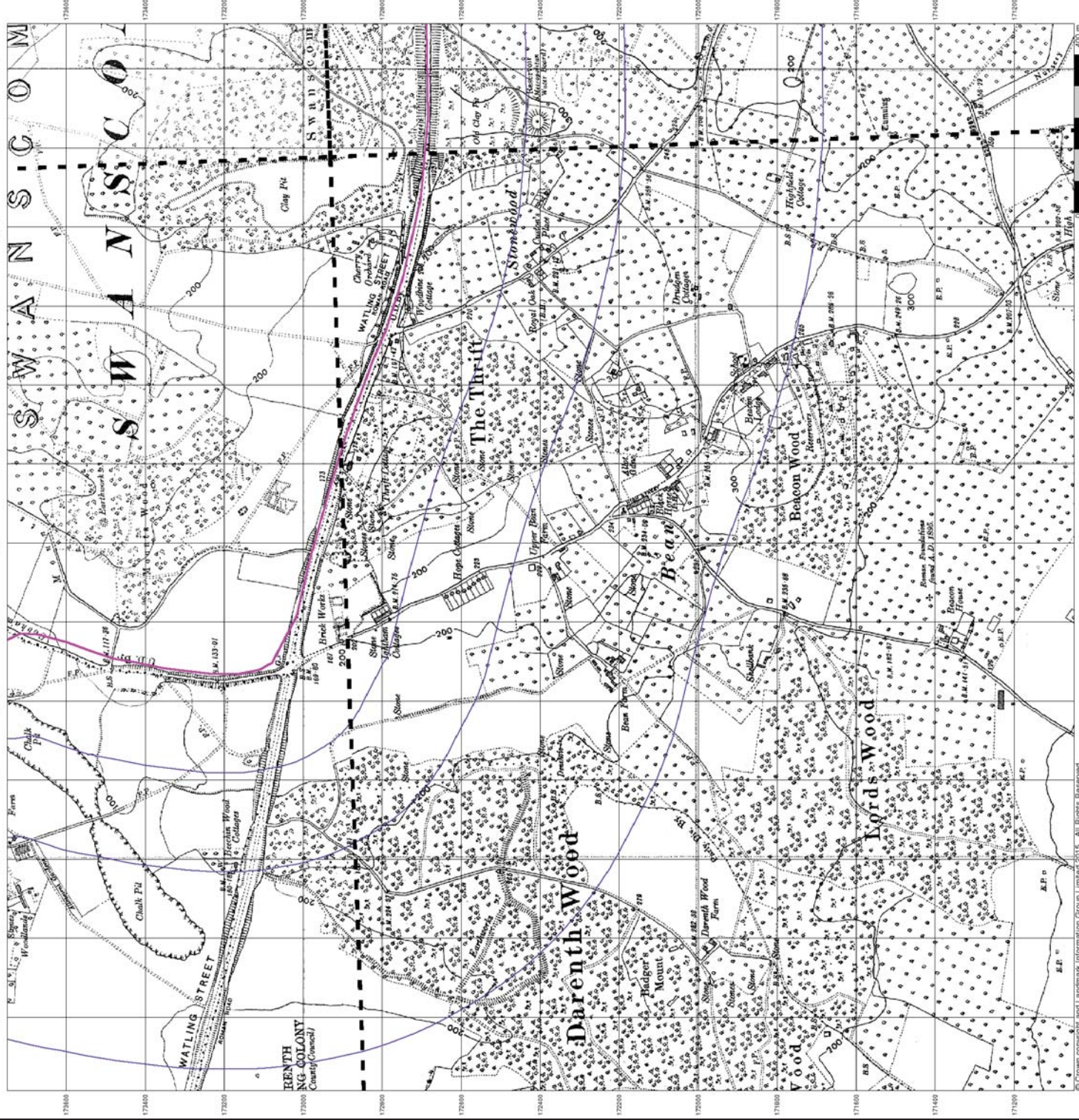


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Kent

Published 1938 - 1951

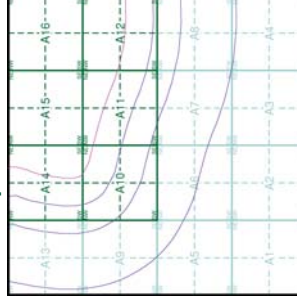
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1854 a 1:2500 scale map of Kent was published. These maps were used to update the 1:10,560 maps. The published data is then the same as the original data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)

|          |          |
|----------|----------|
| 009NE    | 010NW    |
| 1950     | 1951     |
| 1:10,560 | 1:10,560 |
| 009SE    | 010SW    |
| 1950     | 1938     |
| 1:10,560 | 1:10,560 |

## Historical Map - Slice A

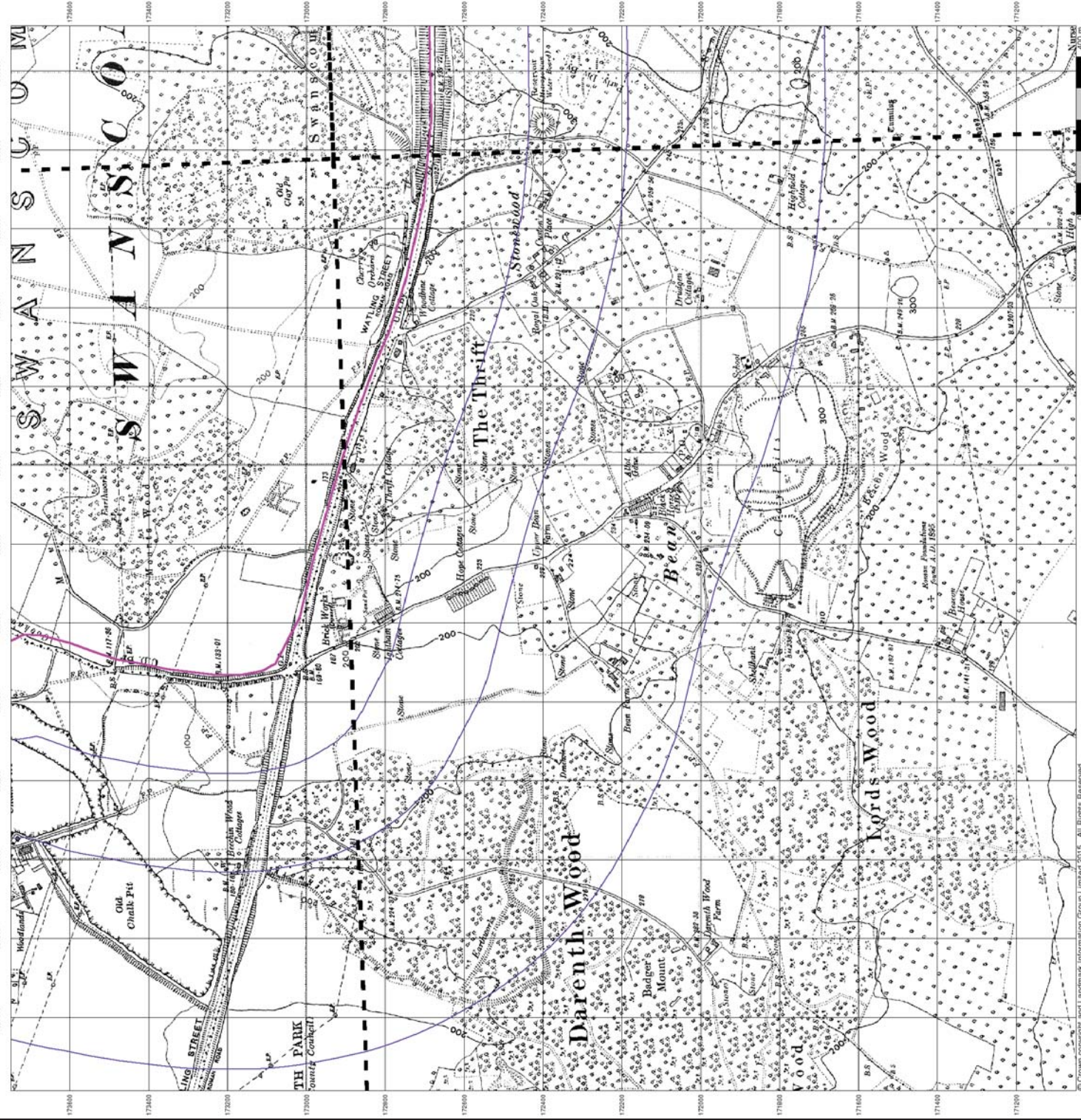


## Order Details

Order Number: 893040408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



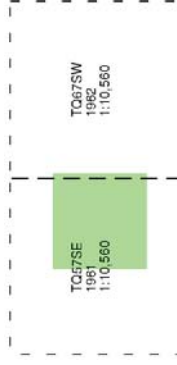


## Ordnance Survey Plan Published 1961 - 1962

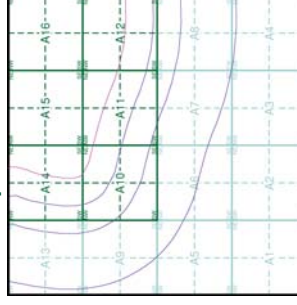
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey in the 1940's. In 1964, the maps were updated to reflect the 1:10,000 scale. The maps are often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in cutting areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A

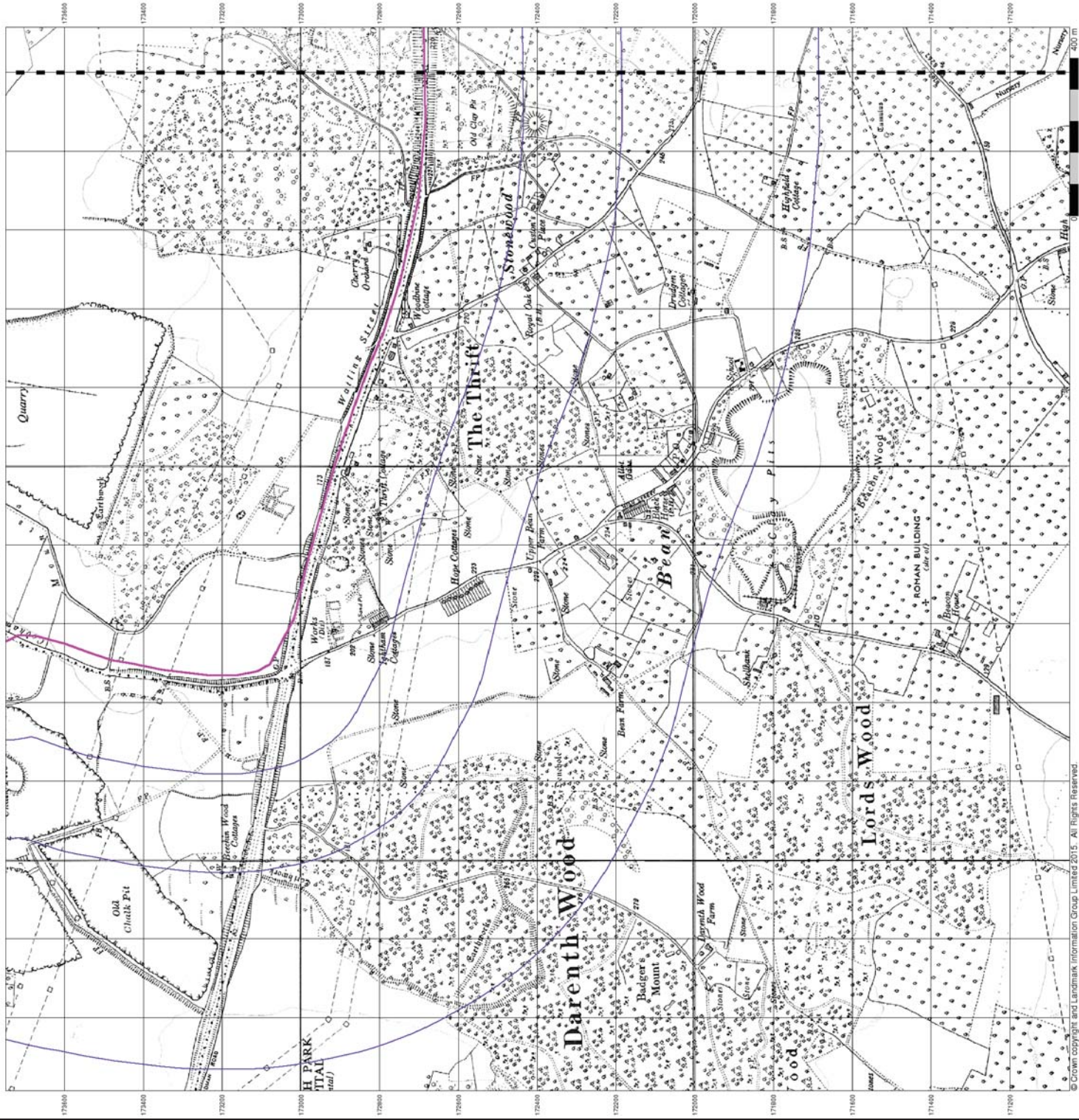


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



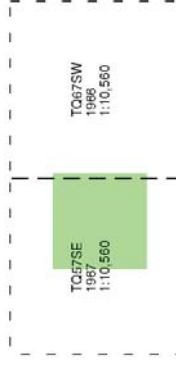


## Ordnance Survey Plan Published 1966 - 1967

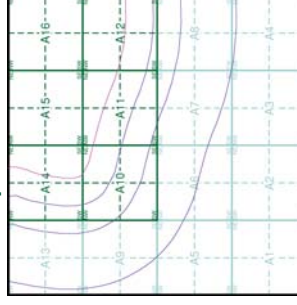
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1964, the Ordnance Survey published a series of maps, which were used to update the 1:10,000 maps. These published data were often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A

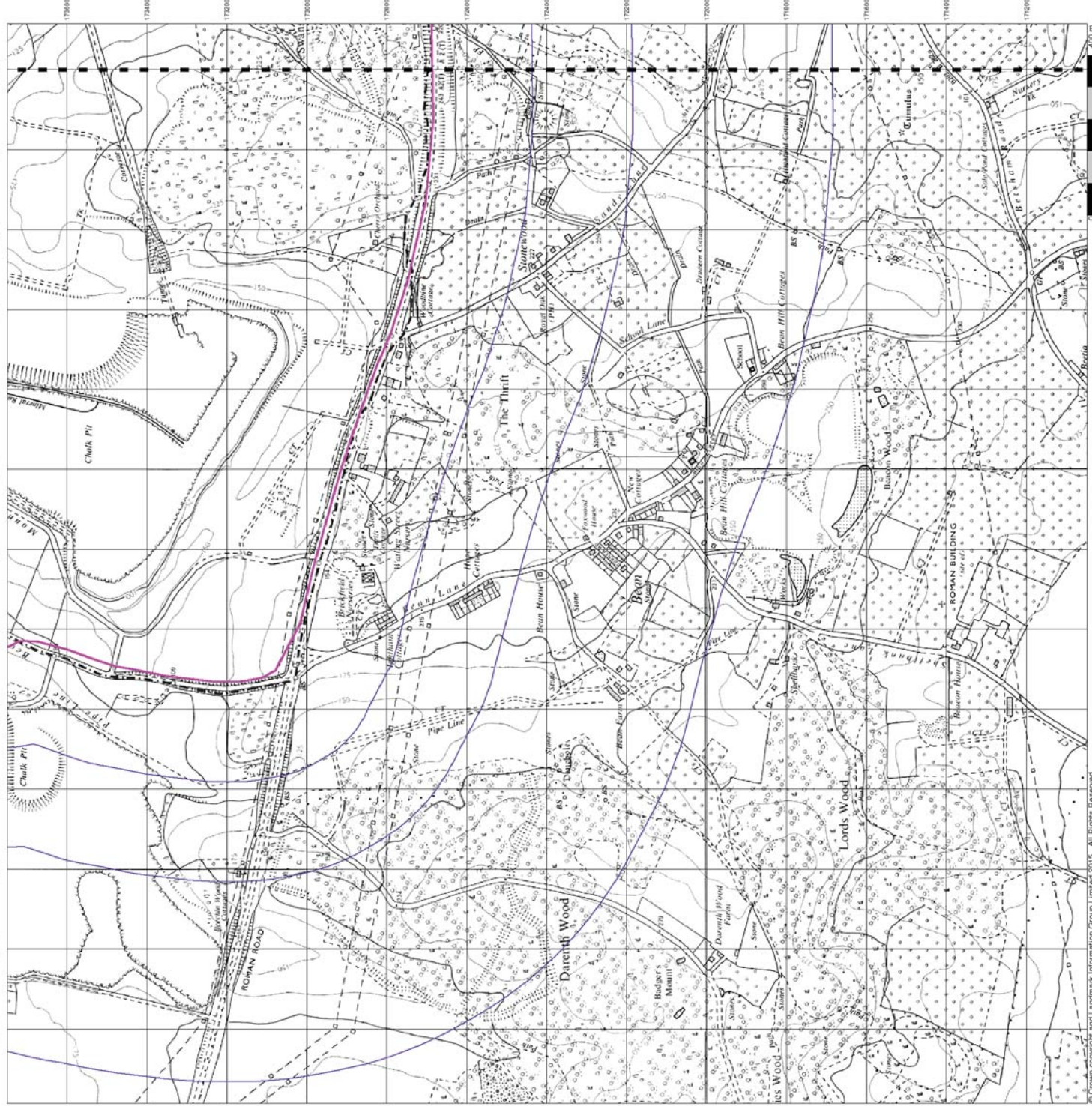


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



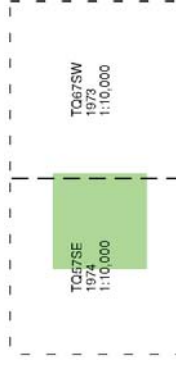


## Ordnance Survey Plan Published 1973 - 1974

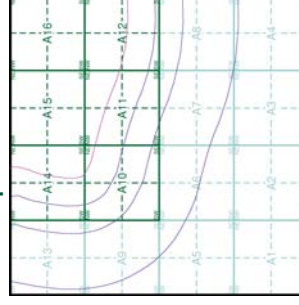
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1954, the Ordnance Survey adopted the Transverse Mercator Projection. The maps were used to update the 1:10,000 maps. The published data from these maps often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



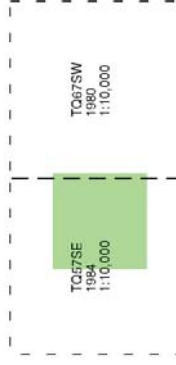


## Ordnance Survey Plan Published 1980 - 1984

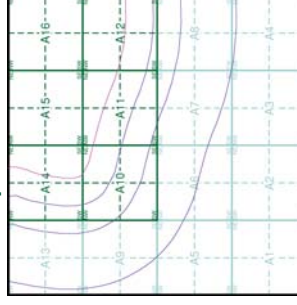
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1954, the Ordnance Survey adopted the Transverse Mercator Projection. The maps were used to update the 1:10,000 maps. The published data then the maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping on a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A

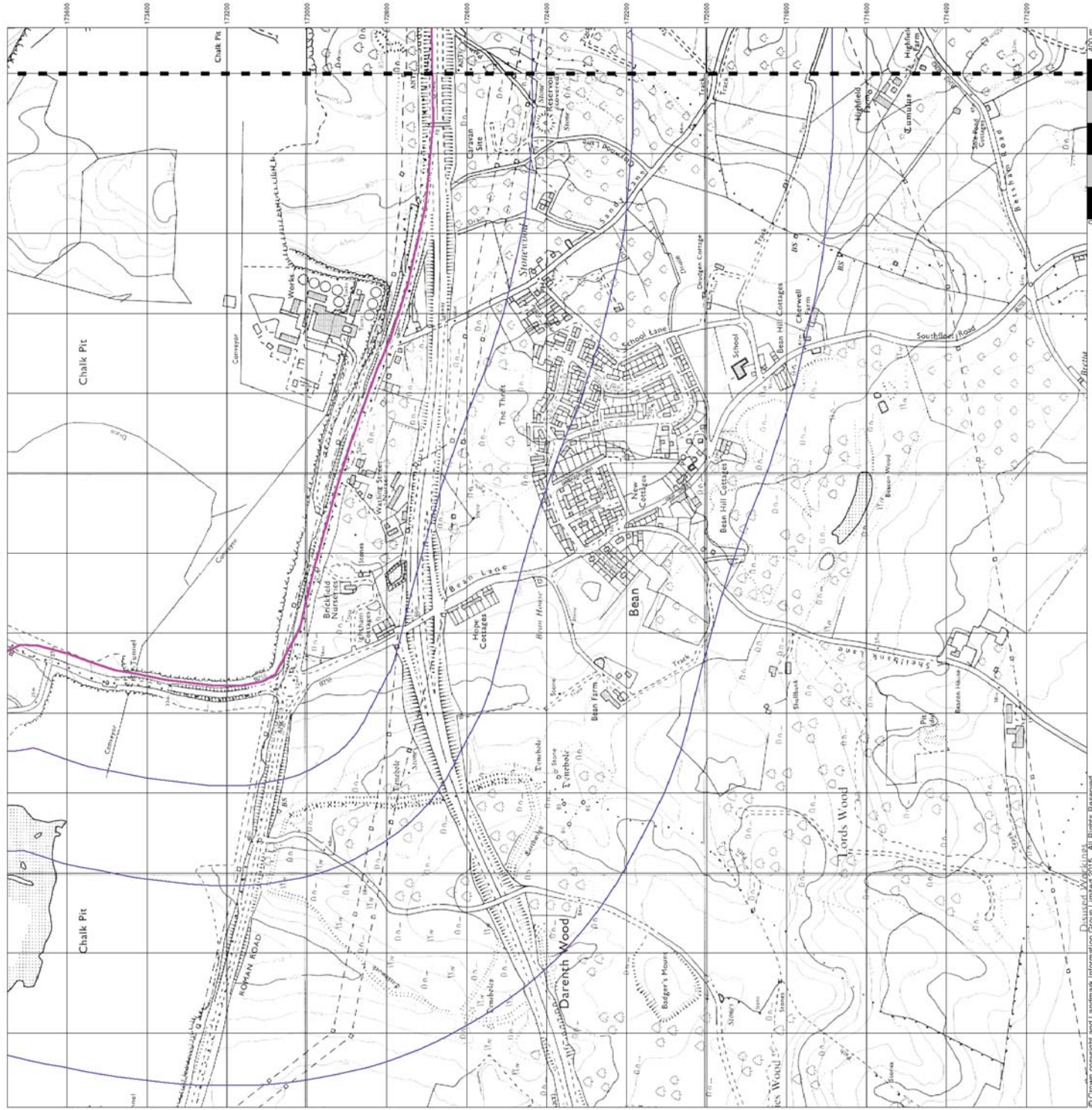


### Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



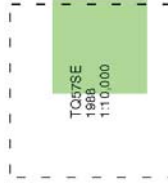


Ordnance Survey Plan  
Published 1988

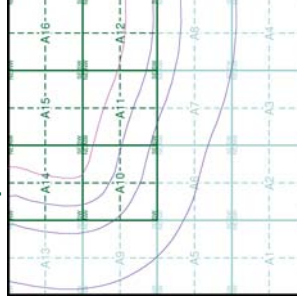
**Source map scale - 1:10,000**

The historical maps shown were reproduced from maps predominantly held at 1:10,000 scale for England, Wales and Scotland in the 1940's. In 1954 the first 1:250,000 map was produced, and the last 1:250,000 map was issued in 1990. The 1:10,000 maps, which listed date, have therefore been used often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in culling areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished – with all military camps and other strategic sites removed. These 1:10,000 maps were produced using the National Grid. In 1970, the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



## Historical Map - Slice A



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 1000           |

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

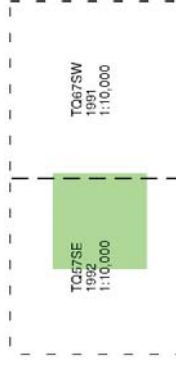


## Ordnance Survey Plan Published 1991 - 1992

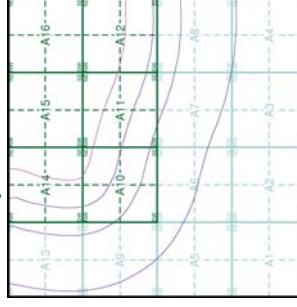
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1854 a new system of mapping was adopted for England, Wales and Scotland. The maps were used to update the 1:10,000 maps. The published data then the maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A

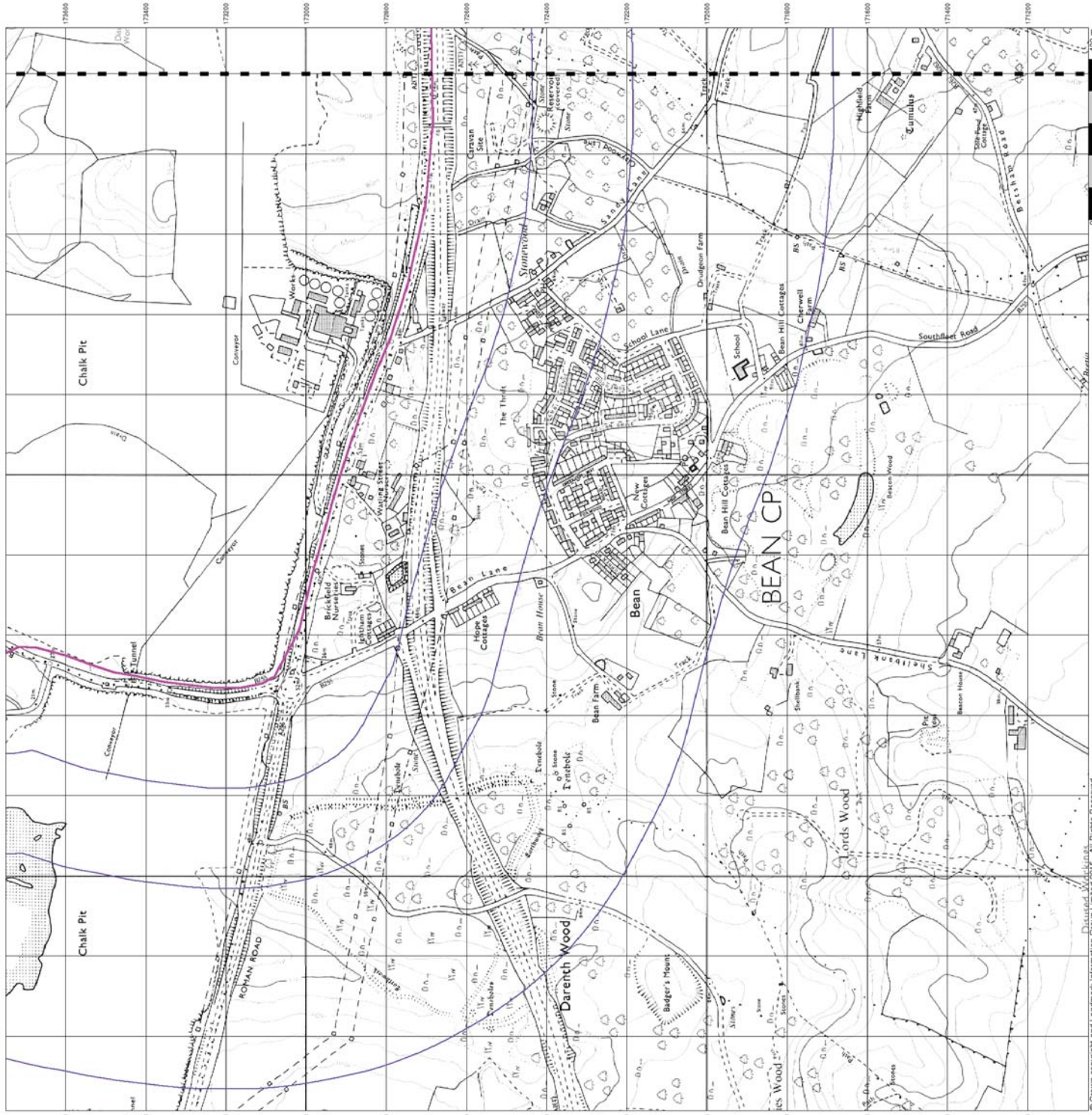


### Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





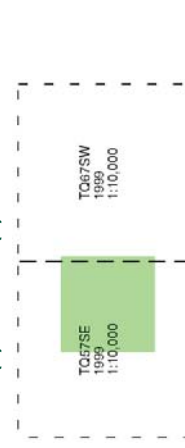
## 10k Raster Mapping

Published 1999

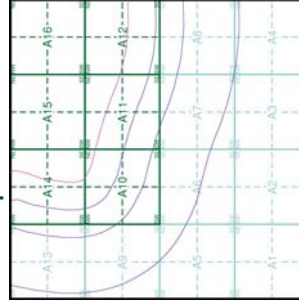
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster maps. These maps are updated from time to time, with the latest edition being published in 1970. The data is highly detailed showing buildings, roads and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





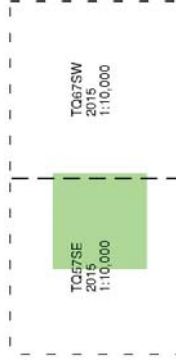
## Street View

Published 2015

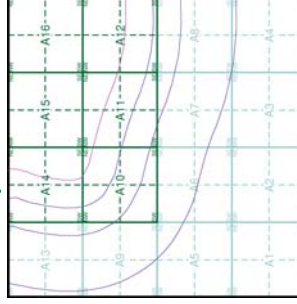
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

## Map Name(s) and Date(s)



## Street View Map - Slice A



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

## Site Details

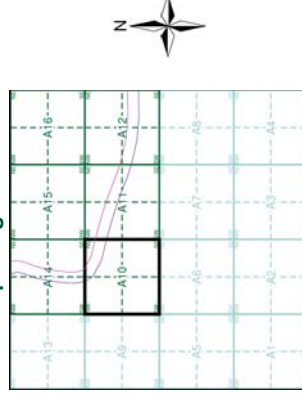
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



### Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Kent                           | 1:2,500 | 1880 - 1894 | 2  |
| Kent                           | 1:2,500 | 1883        | 3  |
| Kent                           | 1:2,500 | 1897        | 4  |
| Kent                           | 1:2,500 | 1909        | 5  |
| Kent                           | 1:2,500 | 1938 - 1939 | 6  |
| Ordinance Survey Plan          | 1:2,500 | 1963        | 7  |
| Additional SIMs                | 1:2,500 | 1963        | 8  |
| Ordinance Survey Plan          | 1:2,500 | 1972        | 9  |
| Additional SIMs                | 1:2,500 | 1978        | 10 |
| Additional SIMs                | 1:2,500 | 1986        | 11 |
| Large-Scale National Grid Data | 1:2,500 | 1992        | 12 |
| Large-Scale National Grid Data | 1:2,500 | 1993        | 13 |

## Historical Map - Segment A10



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

## Historical Mapping Legends

**Large-Scale National Grid Data 1:2,500 and 1:1,250**

| Slopes                                                                                 |                                     | Top            |                                 |
|----------------------------------------------------------------------------------------|-------------------------------------|----------------|---------------------------------|
|                                                                                        | Rock                                |                | Rock (scattered)                |
|                                                                                        | Boulders                            |                | Boulders (scattered)            |
|                                                                                        | Positioned Boulder                  |                | Scree                           |
|                                                                                        | Non-Coniferous Tree (surveyed)      |                | Coniferous Tree (surveyed)      |
|                                                                                        | Non-Coniferous Trees (not surveyed) |                | Coniferous Trees (not surveyed) |
|                                                                                        | Orchard Tree                        |                | Scrub                           |
|                                                                                        | Copice, Oslar                       |                | Reeds                           |
|                                                                                        | Rough Grassland                     |                | Heath                           |
|                                                                                        | Direction of water flow             |                | Triangulation Station           |
|                                                                                        | Electricity Transmission Line       |                | Electricity Pylon               |
|                                                                                        | Bench Mark                          |                | Buildings with Building Seed    |
|                                                                                        | Roofed Building                     |                | Glazed Roof Building            |
| Civil parish/community boundary                                                        |                                     |                |                                 |
| District boundary                                                                      |                                     |                |                                 |
| County boundary                                                                        |                                     |                |                                 |
| Boundary post/stone                                                                    |                                     |                |                                 |
| Boundary mering symbol (note: these always appear in opposed pairs or groups of three) |                                     |                |                                 |
| Bks                                                                                    | Barracks                            | P              | Pillar, Pole or Post            |
| Bty                                                                                    | Battery                             | PO             | Post Office                     |
| Cem                                                                                    | Cemetery                            | PC             | Public Convenience              |
| Chy                                                                                    | Chimney                             | Pp             | Pump                            |
| Cis                                                                                    | Cistern                             | Ppg Sta        | Pumping Station                 |
| Disind Rly                                                                             | Dismantled Railway                  | PW             | Place of Worship                |
| El Gen Sta                                                                             | Electricity Generating Station      | Sewage Png Sta | Sewage Pumping Station          |
| El P                                                                                   | Electricity Pole, Pillar            | SB, S Br       | Signal Box or Bridge            |
| El Sub Sta                                                                             | Electricity Sub Station             | SP SL          | Signal Post or Light            |
| FB                                                                                     | Field Bed                           | Spr            | Spring                          |
| Fn / D Fn                                                                              | Fountain / Drinking Fm.             | Tk             | Tank or Track                   |
| Gas Gov                                                                                | Gas Valve Compound                  | Tr             | Trough                          |
| GVC                                                                                    | Gas Governor                        | Wd Pp          | Wind Pump                       |
| GP                                                                                     | Guide Post                          | WRP, WRT       | Water Point, Water Tap          |
| MH                                                                                     | Mannhole                            | Wks            | Works (building or area)        |
| MP, MS                                                                                 | Mile Post or Mile Stone             | W              | Well                            |

**Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250**

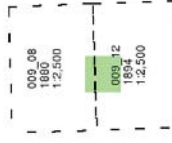
|                                                                                     |                                              |                                                                                     |                        |                                                                                     |                                       |                                                                                     |                            |                                                                                     |                                                        |                                                                                     |                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|
|  | Inactive Quarry,<br>Chalk Pit or<br>Clay Pit |  | Rock                   |  | Cliff                                 |  | Slopes                     |  | Boulders                                               |  | Active Quarry,<br>Chalk Pit or<br>Clay Pit |
|  |                                              |  | Roofed Building        |  | Glazed Roof Building                  |  | Archway                    |  | Non-Confiferous Tree<br>(surveyed)                     |  | Confiferous Trees<br>(not surveyed)        |
|  | Orchard Tree                                 |  | Coppice,<br>Osier      |  | Rough Grassland                       |  | Direction<br>of water flow |  | Cave<br>Entrance                                       |  | County Boundary (Geographical)             |
|  | County & Civil Parish Boundary               |  | Civil Parish Boundary  |  | Admin. County or County Bor. Boundary |  | London Borough Boundary    |  | Symbol marking point where boundary<br>mereing changes |  | Beer House                                 |
|  | Beer House                                   |  | Boundary Post or Stone |  | Capstan, Crane                        |  | Chimney                    |  | Drinking Fountain                                      |  | Electricity/Pillar or Post                 |
|  | Fire Alarm Pillar                            |  | Foot Bridge            |  | Hydrant or Hydraulic                  |  | Level Crossing             |  | Manhole                                                |  | Mile Post or Mooring Post                  |
|  | Normal Tidal Limit                           |  | Wind Pump              |  | Pillar, Pole or Post                  |  | Public Office              |  | Public Convenience                                     |  | Public House                               |
|  | Pump                                         |  | Signal Box or Bridge   |  | Signal Post or Light                  |  | Tank or Track              |  | Telephone Call Box                                     |  | Telephone Call Post                        |
|  | Trough                                       |  | Water Pump             |  | Water Point                           |  | Water Tap                  |  | Well                                                   |  | Wind Pump                                  |

**Ordinance Survey County Series and  
Ordinance Survey Plan 1:2,500**

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quarry                                                                              | Clay Pit                                                                            | Sloping Masonry                                                                     | Marsh                                                                               | Rough Pasture                                                                       | Mixed Wood                                                                          | Fir                                                                                 | Ferry                                                                               | Stepping Stones                                                                     | Lock                                                                                | Altitude at Trig. Station                                                           | Bench Mark                                                                          | Arrow denotes flow of water                                                         | Cutting                                                                             | Railway crossing Road                                                                | Road crossing Railway                                                                 | Road over River or Canal                                                              | County Boundary (Geographical)                                                        | County & Civil Parish Boundary                                                        | Administrative County & Civil Parish Boundary                                         | County Borough Boundary (England)                                                     | County Burgh Boundary (Scotland)                                                      | Police Call Box                                                                       | Pump                                                                                  | Signal Post                                                                           | Sluice                                                                                | Spring                                                                                | Telephone Call Box                                                                    | Trough                                                                                | Well                                                                                  |

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:250 000 scale was adopted for mapping urban areas and by 1986 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in cutting areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A10



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

## Site Details

**Site Details**  
Barton Willmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



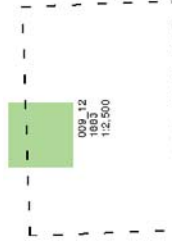
## Kent

### Published 1883

#### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1884 the 1:2,500 scale maps were published by the Ordnance Survey, which had created the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

#### Map Name(s) and Date(s)



#### Historical Map - Segment A10



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

#### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



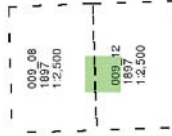
## Kent

### Published 1897

### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were first published in 1897, and the 1:10,000 scale maps were first published in 1938. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A10

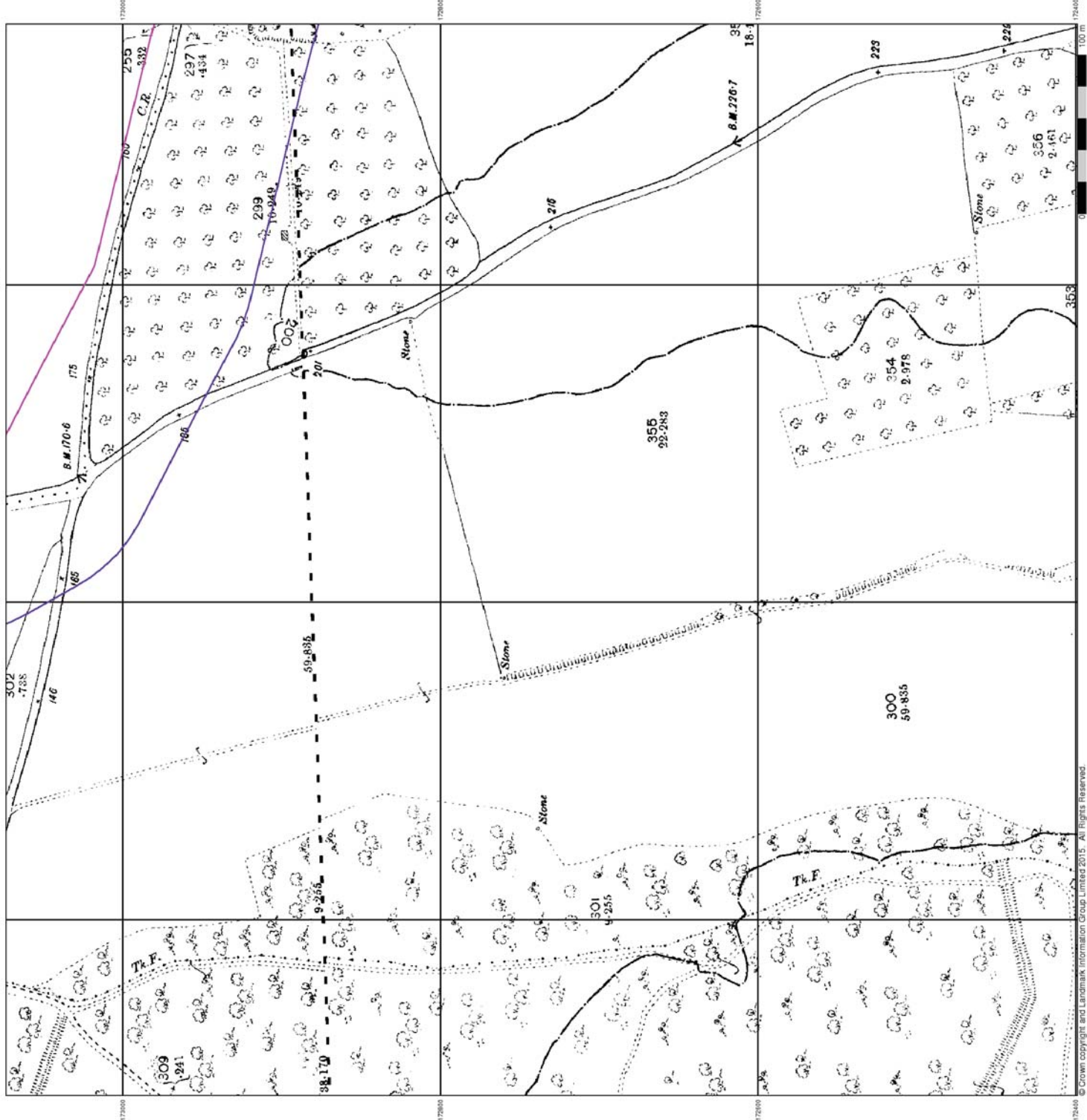


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

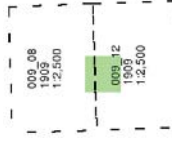
### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854, the Ordnance Survey was created by an Act of Parliament, and the maps were prepared by 1866. It is important to note that the whole of what is now England and Wales was not included in the original parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A10**

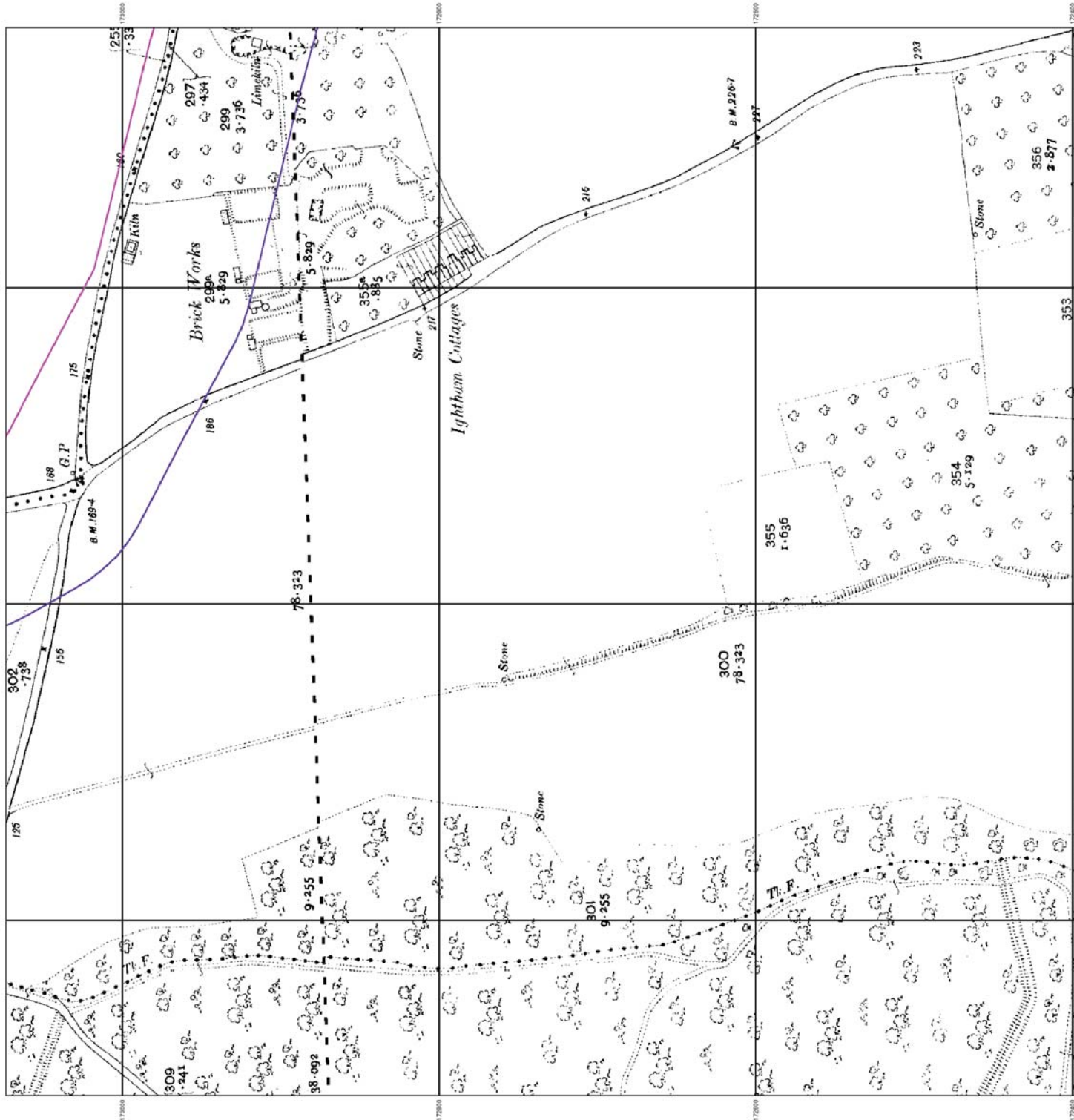


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

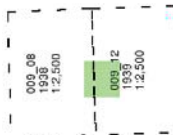
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



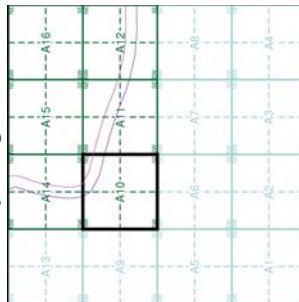


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's, in 1854 at the 1:2,500 scale was adopted for mapping urban areas and by 1898 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A10



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
A  
Slice:  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent. DA10 0DF



## Ordnance Survey Plan

Published 1963

Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. 1854 the 1:2,500 scale maps were produced by the Ordnance Survey. The maps covered the whole of what was considered to be the populated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TC5873 | 1963 | 1:2,500 |
| TC5872 | 1963 | 1:2,500 |

### Historical Map - Segment A10

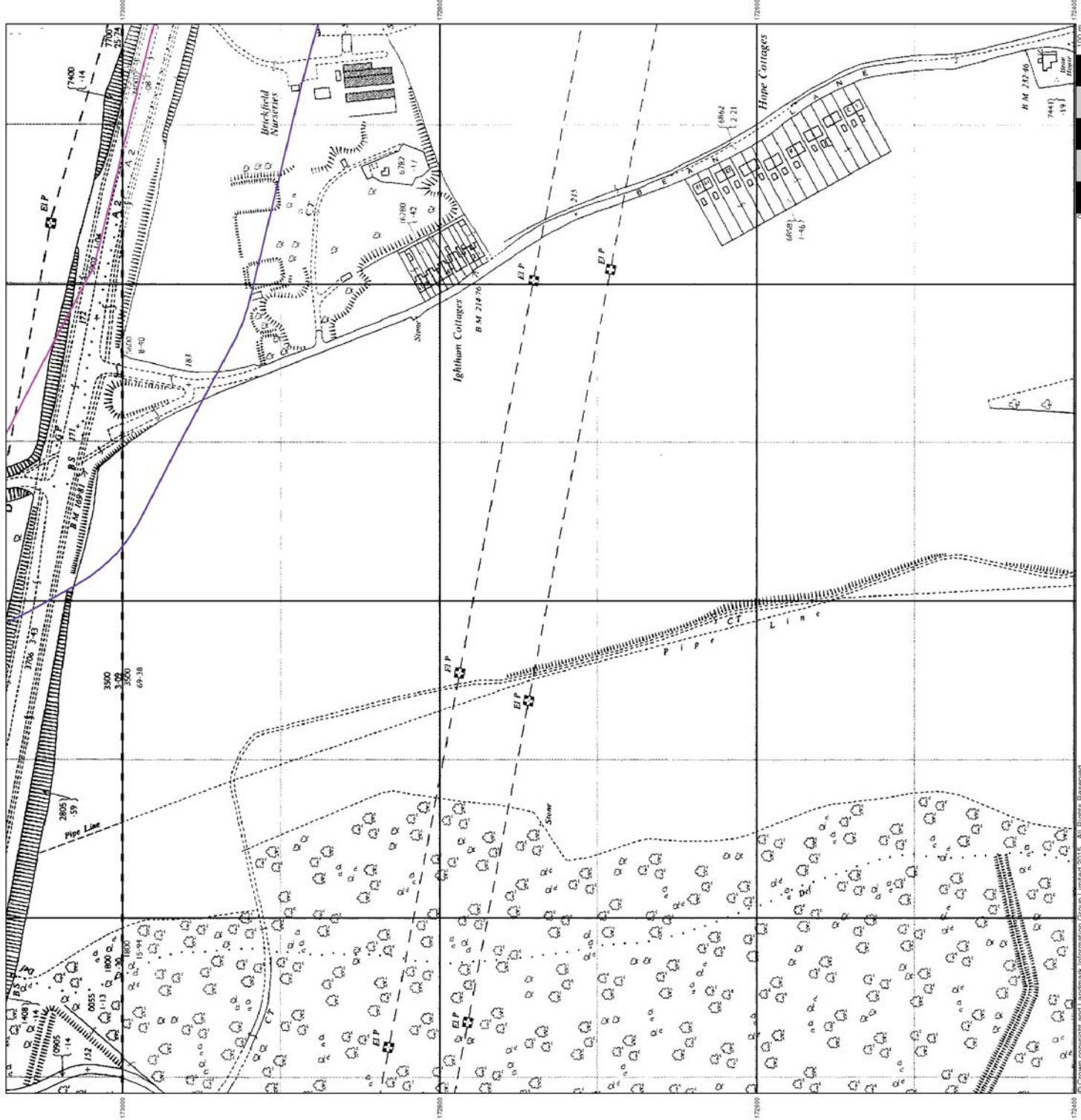


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





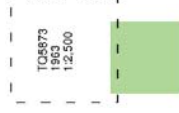
## Additional SIMs

### Published 1963

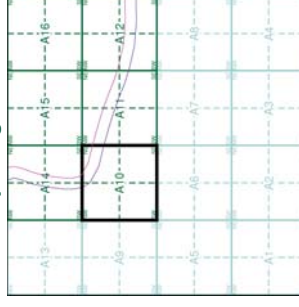
#### Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in 1963. The SIM cards contain information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

#### Map Name(s) and Date(s)



#### Historical Map - Segment A10



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

#### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

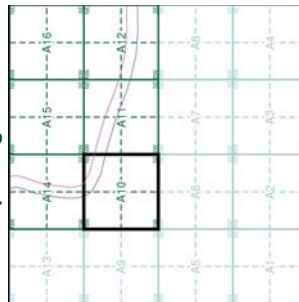


The historical maps shown were reproduced from maps predominantly held at the date adopted for England, Wales and Scotland in the 1840's. In 1854 at the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A10



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



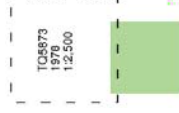
## Additional SIMs

### Published 1978

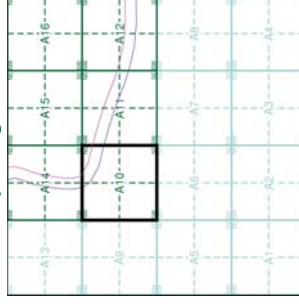
#### Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in 1978. They contain information on the environment in the area from 1947 to 1978, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

#### Map Name(s) and Date(s)



#### Historical Map - Segment A10



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

#### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

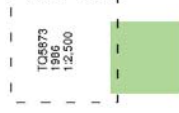
## Additional SIMs

### Published 1986

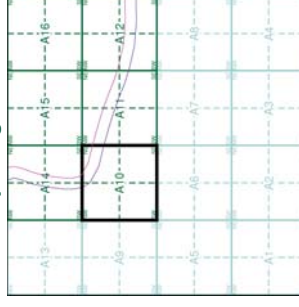
#### Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s. The maps were produced from aerial photography taken from 1947 to 1984, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

#### Map Name(s) and Date(s)



#### Historical Map - Segment A10



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

#### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

|        |      |        |
|--------|------|--------|
| TQ5873 | 1992 | 12.500 |
| TQ5872 | 1992 | 12.500 |

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

**Site Details**  
Barton Willmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





## Large-Scale National Grid Data

Published 1993

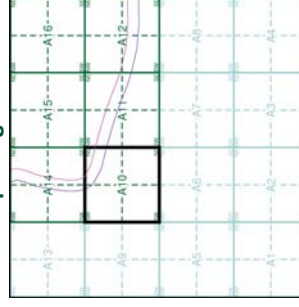
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were originally produced at a scale of 1:2,500 and provide detailed information on houses and other built features, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TC5673 | 1983 | 1:2,500 |
| TC5672 | 1983 | 1:2,500 |

### Historical Map - Segment A10



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





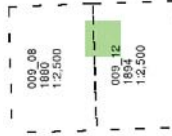
## Kent

Published 1880 - 1894

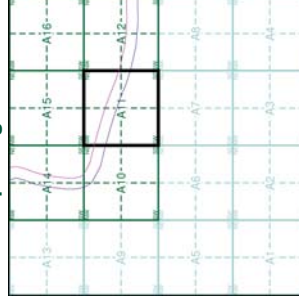
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1840s, 1854 and 1864. The maps were reproduced at a scale of 1:2,500 and were based on the original maps of the Ordnance Survey. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A11

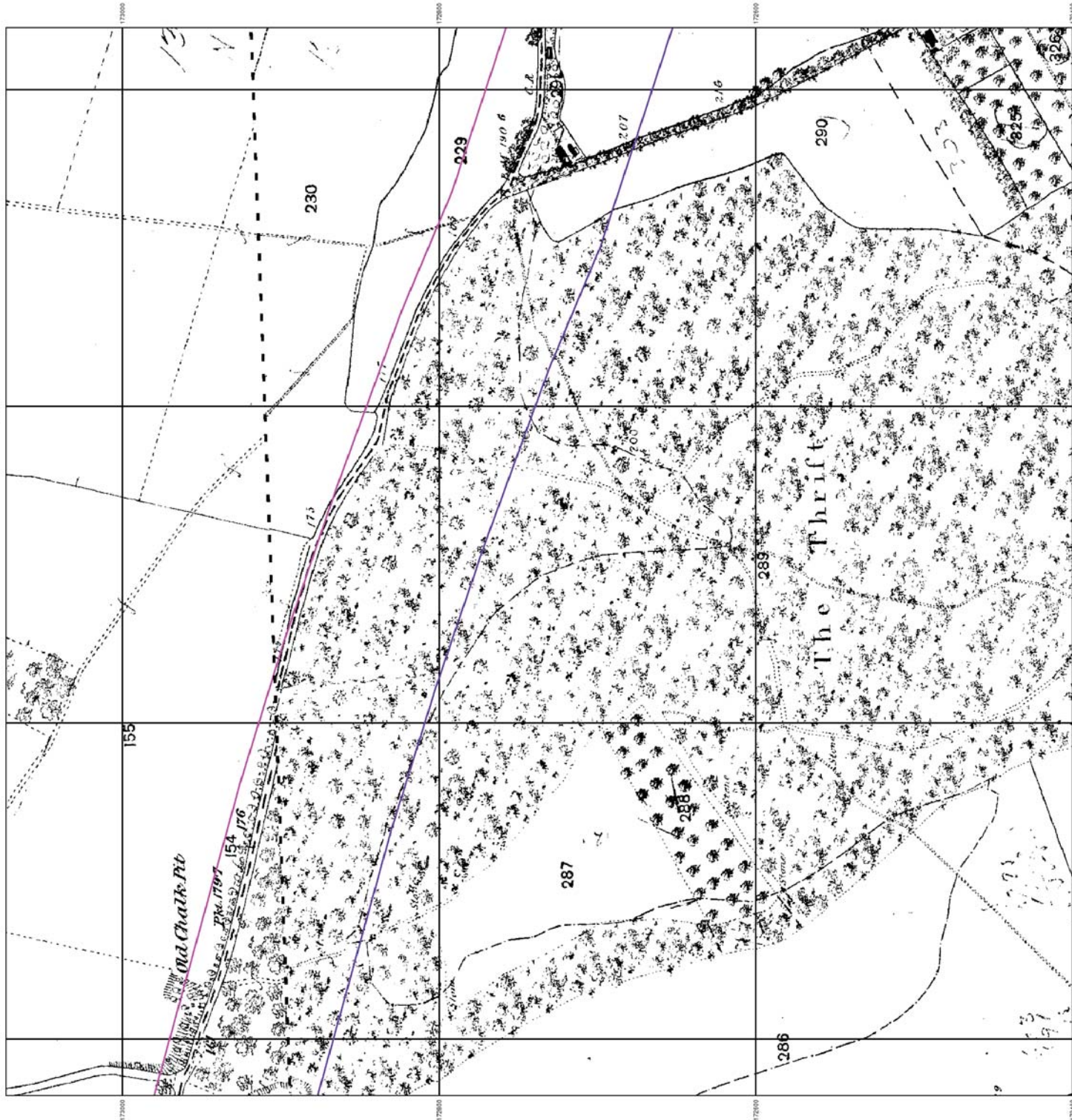


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





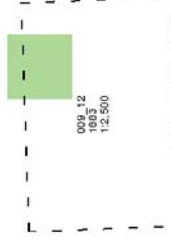
## Kent

### Published 1883

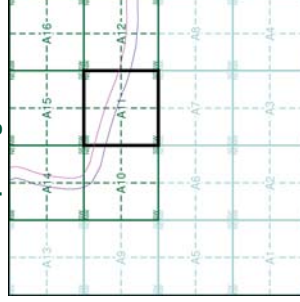
#### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were produced by the Ordnance Survey and by 1886 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

#### Map Name(s) and Date(s)



#### Historical Map - Segment A11



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

#### Site Details

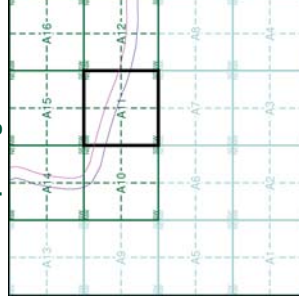
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at a time adopted for England, Wales and Scotland in the 1940s. In 1854 the Ordnance Survey was established and the first series of maps were published. The whole of what was considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**

|        |      |         |
|--------|------|---------|
| 000_08 | 1897 | 1:2,500 |
| 000_12 | 1897 | 1:2,500 |

**Historical Map - Segment A11**

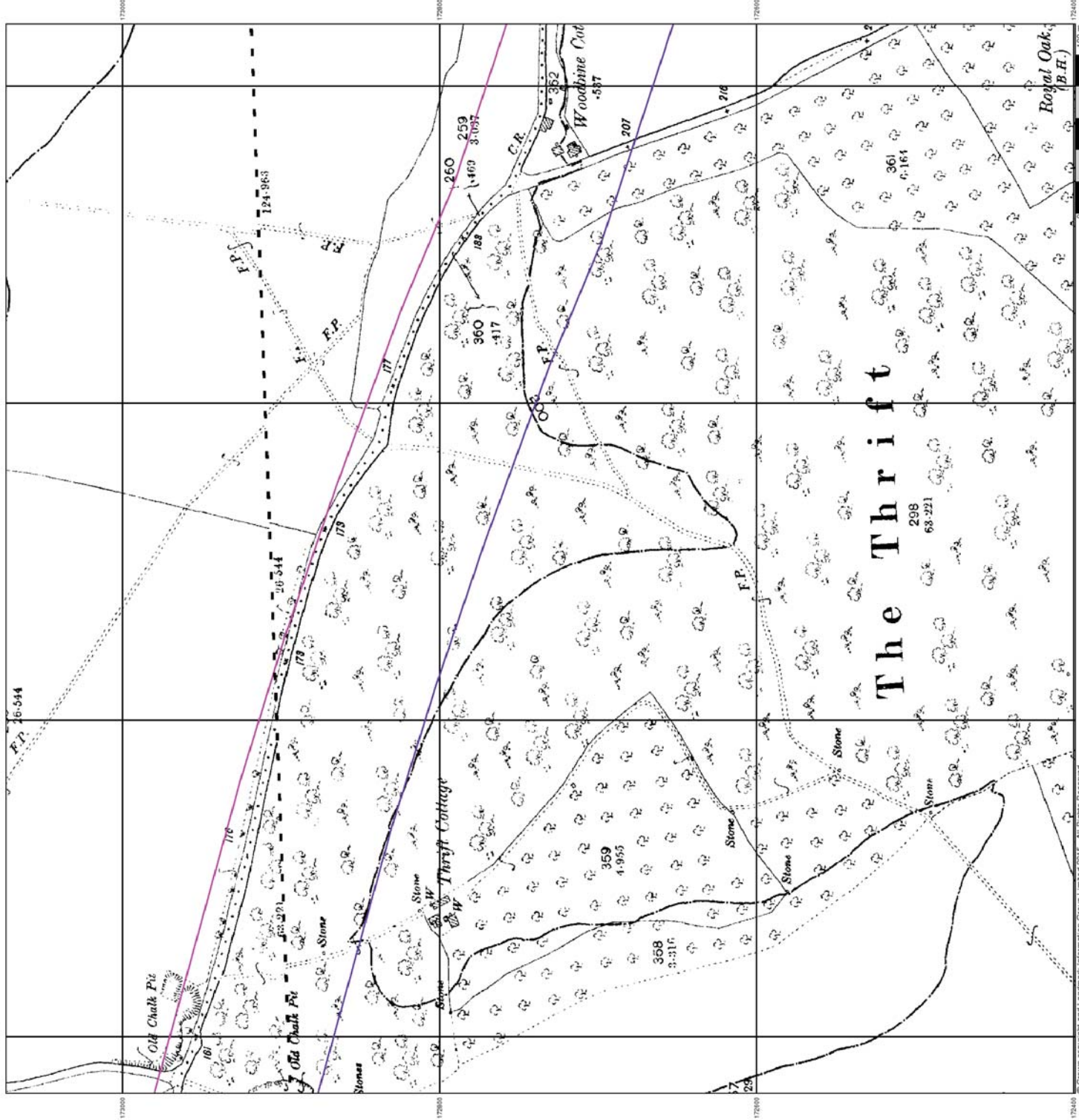


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Site: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

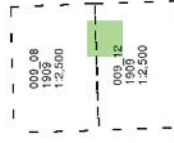
**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

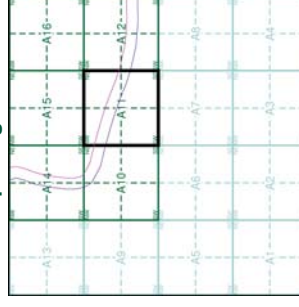


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:250 000 scale was adopted for mapping urban areas and by 1986 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in cutting areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A11



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

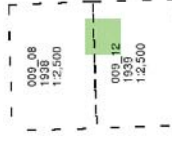
## Site Details

**Site Details**  
Barton Willmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

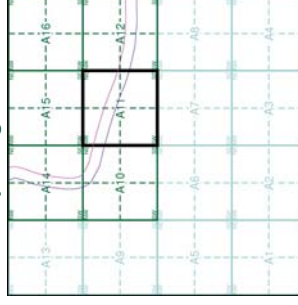


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were first published in 1864 and the 1:2,500 scale maps were first published in 1864. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A11**

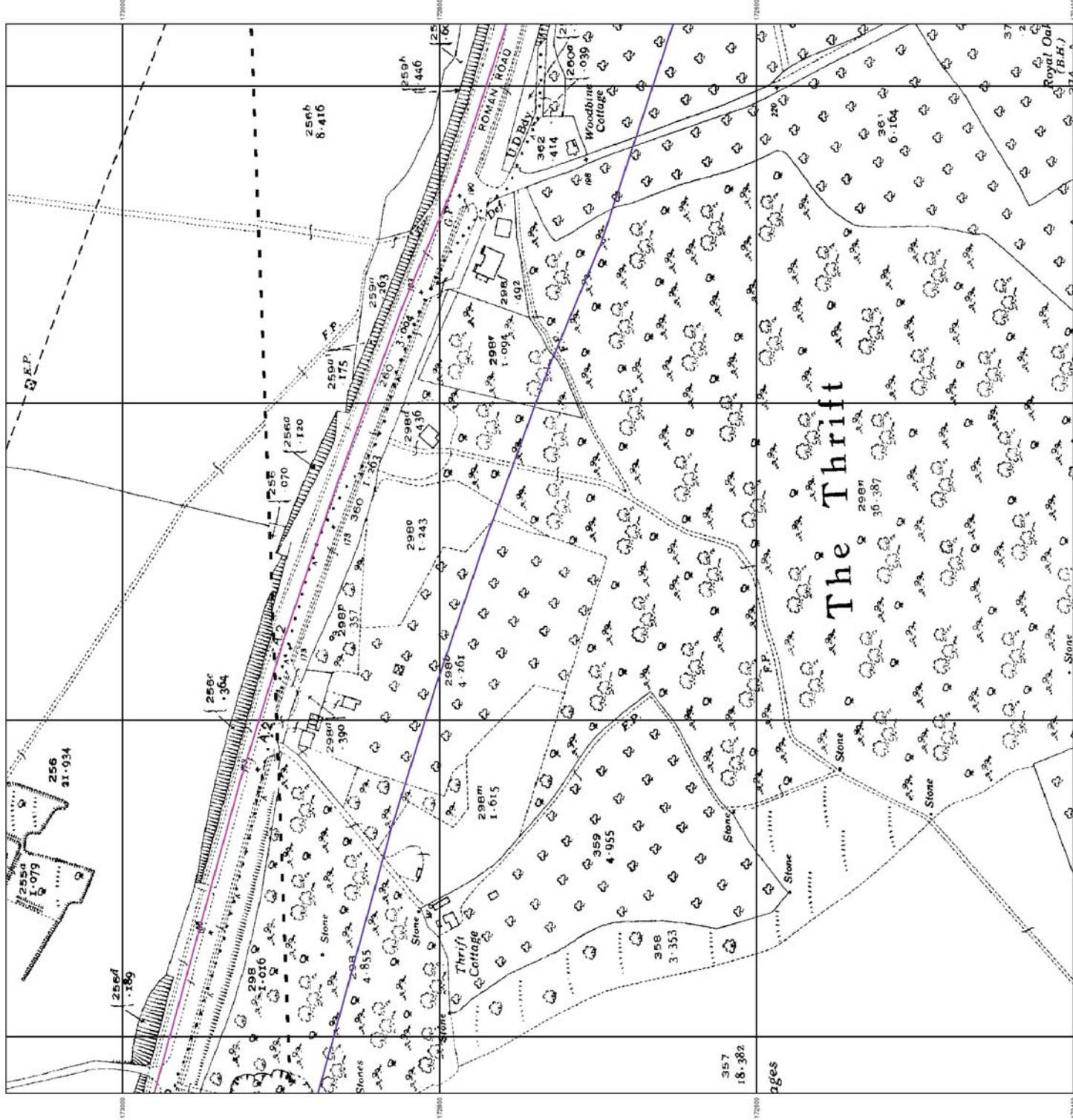


**Order Details**

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



## Ordnance Survey Plan

Published 1963

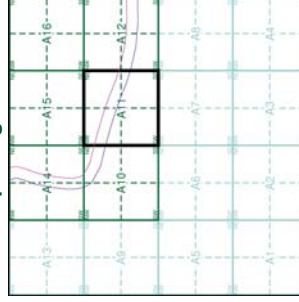
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were reproduced from the original maps by 1884. The 1:2,500 scale maps were reproduced from the original maps by 1884. The whole of what was covered by the original maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|        |      |        |
|--------|------|--------|
| TO5873 | 1963 | 12,500 |
| TO5872 | 1963 | 12,500 |

### Historical Map - Segment A11

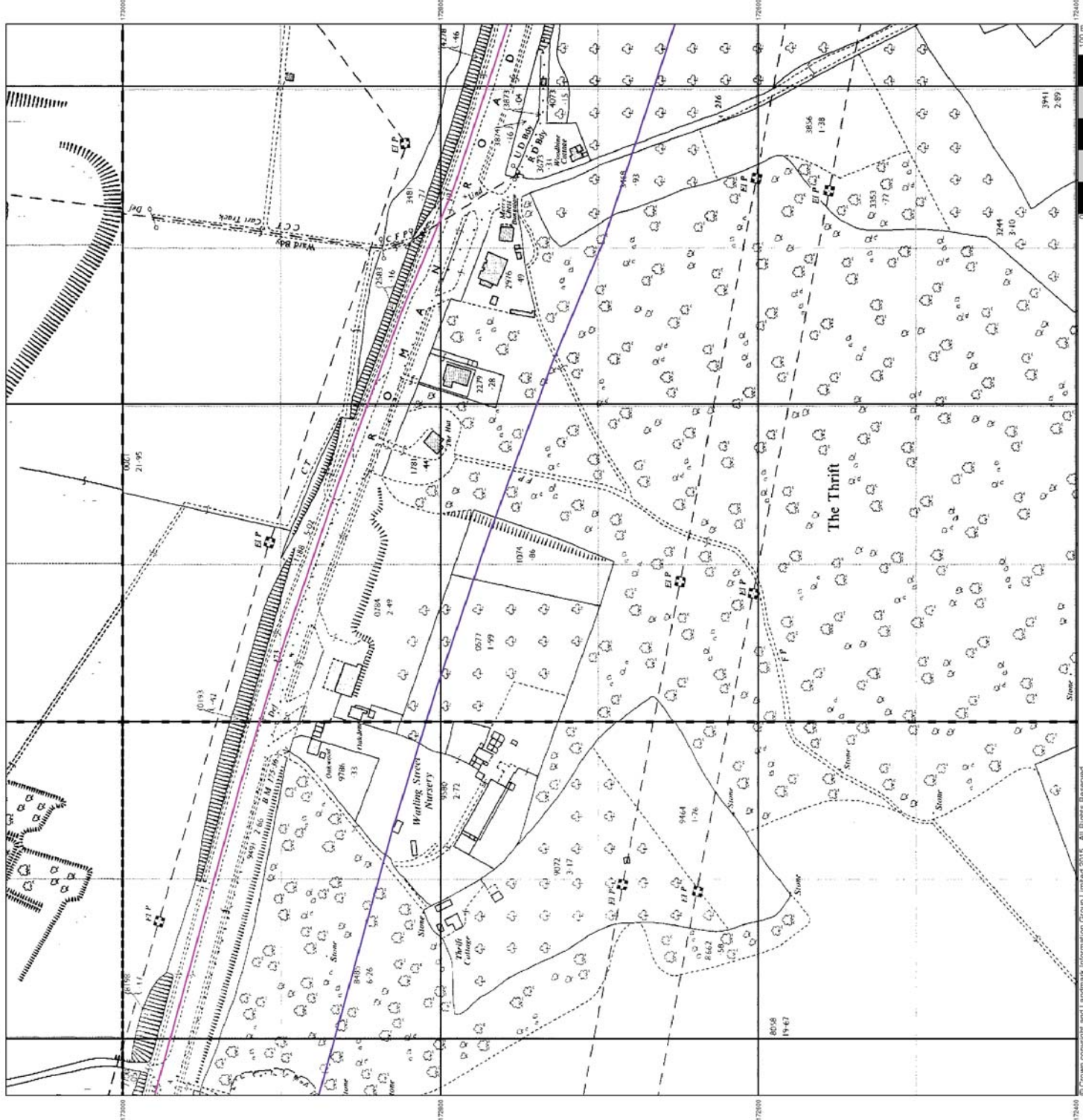


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 588920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Additional SIMs

Published 1963 - 1978

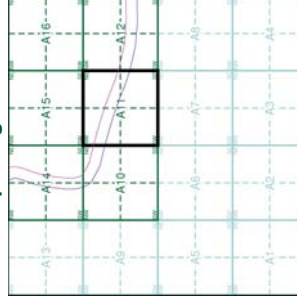
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further editions of the mapping which were produced and published from 1947 to 1994 and contain details of buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:12,500 scales.

## Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TO5673 | 1963 | 1:2,500 |
| TO5672 | 1978 | 1:2,500 |

## Historical Map - Segment A11



## Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Ordnance Survey Plan

Published 1972 - 1978

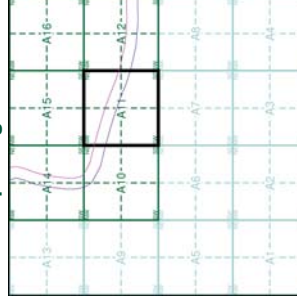
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. By 1854, the whole of what is now Great Britain had been surveyed and the maps created the whole of what is now Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|        |      |        |
|--------|------|--------|
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |
| TO5672 | 1972 | 12,500 |

### Historical Map - Segment A11



### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Additional SIMs

Published 1978 - 1990

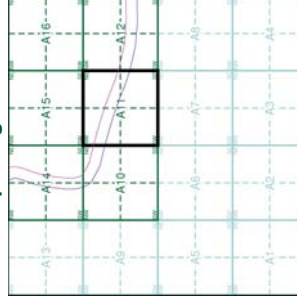
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further editions of the mapping which were produced and published from 1947 to 1990. They contain details of buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TO5873 | 1978 | 1:2,500 |
| TO5872 | 1980 | 1:2,500 |

## Historical Map - Segment A11



## Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





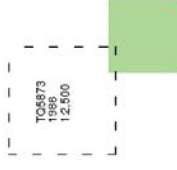
## Additional SIMs

Published 1986

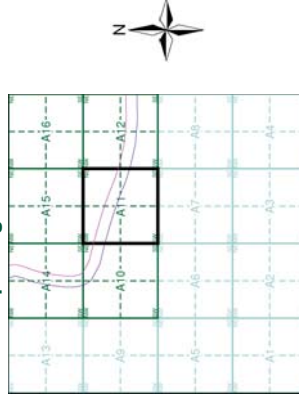
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2 500 and 1:1 250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A11



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



## Large-Scale National Grid Data

Published 1992

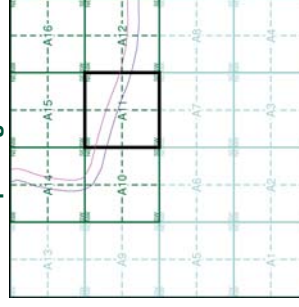
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Great Britain) in 1992, and continued to be produced until 1999. These maps are not for official planning or other legal purposes. They provide detailed information on houses and other built-up areas, but less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TO5873 | 1992 | 1:2,500 |
| TO5872 | 1992 | 1:2,500 |

### Historical Map - Segment A11



### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Large-Scale National Grid Data

Published 1993

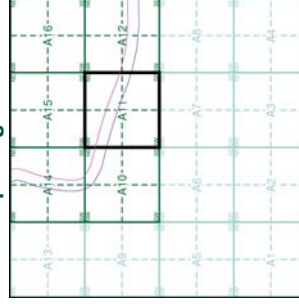
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Great Britain) in 1992, and continued to be produced until 1993. These maps were produced by digitising the original maps and provide detailed information on houses and sites, but lack the topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TO5873 | 1993 | 1:2,500 |
| TO5873 | 1993 | 1:2,500 |
| TO5872 | 1993 | 1:2,500 |
| TO5872 | 1993 | 1:2,500 |

### Historical Map - Segment A11



### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



# Historical Mapping Legends

Ordnance Survey County Series and  
Ordnance Survey Plan 1:2,500

|                                   |                                    |                                               |
|-----------------------------------|------------------------------------|-----------------------------------------------|
| Quarry                            | Gravel Pit                         | Sand Pit                                      |
| Clay Pit                          | Shingle                            | Refuse Heap                                   |
| Sloping Masonry                   | Flat Rock                          |                                               |
| Marsh                             | Reeds                              | Ostlers                                       |
| Rough Pasture                     | Furze                              | Wood                                          |
| Mixed Wood                        | Brushwood                          | Orchard                                       |
| Fir                               | Ford                               | Sleeping Stones                               |
| Ferry                             | Waterfall                          | Lock                                          |
| Trig. Station                     | 507 Δ                              | Altitude at Trig. Station                     |
| B.M. 325.9 ↑                      | Bench Mark                         | 342 +                                         |
| Arrow denotes flow of water       | Antiquities (site of)              |                                               |
| Cutting                           | Embankment                         |                                               |
| Railway crossing Road             | Level Crossing                     | Road crossing Railway                         |
| Railway crossing River or Canal   | Road over single stream            | Road over River or Canal                      |
| County Boundary (Geographical)    | County & Civil Parish Boundary     | Administrative County & Civil Parish Boundary |
| County Borough Boundary (England) | County Borough Boundary (Scotland) |                                               |
| Boundary Post or Stone            | P.C.B.                             | Police Call Box                               |
| B.R.                              | Bridle Road                        | P                                             |
| E.P.                              | Electricity Pylon                  | S.P.                                          |
| F.B.                              | Foot Bridge                        | SL                                            |
| F.P.                              | Foot Path                          | Sp.                                           |
| G.P.                              | Guide Post or Board                | T.C.B.                                        |
| M.S.                              | Mill Stone                         | Tt.                                           |
| M.P.                              | Mooring Post or Ring               | W                                             |

Ordnance Survey Plan, Additional SIMs and  
Supply of Unpublished Survey Information  
1:2,500 and 1:1,250

|                                        |                                                     |                             |
|----------------------------------------|-----------------------------------------------------|-----------------------------|
| Inactive Quarry, Chalk Pit or Clay Pit | Active Quarry, Chalk Pit or Clay Pit                | Boulders                    |
| Rock                                   | Slopes                                              | Top                         |
| Roofed Building                        | Glazed Roof Building                                | Archway                     |
| Sloping Masonry                        | Non-Confiferous Tree (surveyed)                     | Confiferous Tree (surveyed) |
| Non-Confiferous Trees (not surveyed)   | Orchard Tree                                        | Scrub                       |
| Copice, Osier                          | Reeds                                               | Marsh, Saltings             |
| Rough Grassland                        | Heath                                               | Culvert                     |
| Direction of water flow                | Bench Mark                                          | Antiquity (site of)         |
| Cave Entrance                          | Triangulation Station                               | Electricity Pylon           |
| ETL                                    | Electricity Transmission Line                       |                             |
| County Boundary (Geographical)         | County & Civil Parish Boundary                      |                             |
| Civil Parish Boundary                  | Admin. County or County Bor. Boundary               |                             |
| London Borough Boundary                | Symbol marking point where boundary merings changes |                             |
| Beer House                             | Boundary Post or Stone                              | P                           |
| BP, BS                                 | Capstan, Crane                                      | PC                          |
| Ch, C                                  | Chimney                                             | PH                          |
| Chy                                    | Drinking Fountain                                   | Pp                          |
| D.Fn                                   | Electricity Pillar or Post                          | SB, S Br                    |
| FAP                                    | Fire Alarm Pillar                                   | SP, SL                      |
| FB                                     | Foot Bridge                                         | Spr                         |
| GP                                     | Guide Post                                          | Tk                          |
| H                                      | Hydrant or Hydraulic                                | TCP                         |
| LC                                     | Level Crossing                                      | Tt                          |
| MH                                     | Manhole                                             | W                           |
| MP                                     | Mill Post or Mooring Post                           | Wt                          |
| MS                                     | Mill Stone                                          | Wt                          |
| NL                                     | Normal Tidal Limit                                  | W                           |

Large-Scale National Grid Data 1:2,500 and  
1:1,250

|                                                                                        |                                |                              |
|----------------------------------------------------------------------------------------|--------------------------------|------------------------------|
| Cliff                                                                                  | Slopes                         | Top                          |
| Rock                                                                                   | Rock (scattered)               |                              |
| Boulders                                                                               | Boulders (scattered)           |                              |
| Positioned Boulder                                                                     | Scree                          |                              |
| Non-Confiferous Tree (surveyed)                                                        | Confiferous Tree (surveyed)    |                              |
| Non-Confiferous Trees (not surveyed)                                                   | Orchard Tree                   | Scrub                        |
| Copice, Osier                                                                          | Reeds                          | Marsh, Saltings              |
| Rough Grassland                                                                        | Heath                          | Culvert                      |
| Direction of water flow                                                                | Triangulation Station          | Antiquity (site of)          |
| ETL                                                                                    | Electricity Transmission Line  | Electricity Pylon            |
| BH 231.05m                                                                             | Bench Mark                     | Buildings with Building Seed |
| Roofed Building                                                                        | Glazed Roof Building           |                              |
| Civil parish/community boundary                                                        | District boundary              |                              |
| County boundary                                                                        | Boundary post/stone            |                              |
| Boundary mering symbol (note: these always appear in opposed pairs or groups of three) |                                |                              |
| Bks                                                                                    | Barracks                       | P                            |
| Bt                                                                                     | Battery                        | PO                           |
| Cem                                                                                    | Cemetery                       | PC                           |
| Chy                                                                                    | Chimney                        | Pp                           |
| Cis                                                                                    | Cistern                        | Pp Sta                       |
| Disam'd Rly                                                                            | Dismantled Railway             | PW                           |
| El Gen Sta                                                                             | Electricity Generating Station | Sewage Png Sta               |
| El P                                                                                   | Electricity Pole, Pillar       | SB, S Br                     |
| El Sub Sta                                                                             | Electricity Sub Station        | SP, SL                       |
| FB                                                                                     | Filter Bed                     | Spr                          |
| Ft                                                                                     | Fountain / Drinking Ftn.       | Tk                           |
| Gas Gov                                                                                | Gas Governor                   | Tr                           |
| GVC                                                                                    | Gas Valve Compound             | Wd Pp                        |
| GP                                                                                     | Guide Post                     | Wt                           |
| MH                                                                                     | Manhole                        | Wt                           |
| MP                                                                                     | Mill Post or Mile Stone        | W                            |

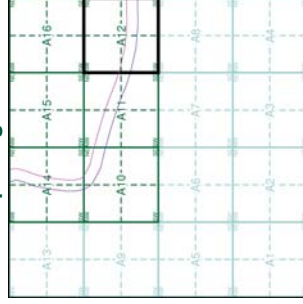


# Envirocheck

Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Kent                           | 1:2,500 | 1879 - 1894 | 2  |
| Kent                           | 1:2,500 | 1893        | 3  |
| Kent                           | 1:2,500 | 1896 - 1897 | 4  |
| Kent                           | 1:2,500 | 1909        | 5  |
| Kent                           | 1:2,500 | 1938 - 1939 | 6  |
| Ordnance Survey Plan           | 1:2,500 | 1961 - 1963 | 7  |
| Ordnance Survey Plan           | 1:2,500 | 1968 - 1978 | 8  |
| Additional SIMs                | 1:2,500 | 1978 - 1987 | 9  |
| Ordnance Survey Plan           | 1:2,500 | 1986        | 10 |
| Additional SIMs                | 1:2,500 | 1990        | 11 |
| Large-Scale National Grid Data | 1:2,500 | 1992        | 12 |
| Large-Scale National Grid Data | 1:2,500 | 1993        | 13 |
| Large-Scale National Grid Data | 1:2,500 | 1995        | 14 |

## Historical Map - Segment A12



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 589920, 172840  
Site: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

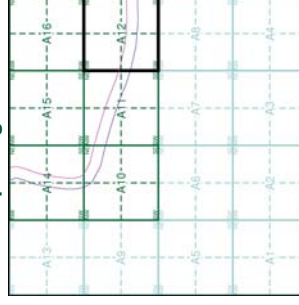


The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. It was the adopted Ordnance Survey map scale for the period 1879 to 1894. The maps were prepared by the Ordnance Survey and are the copyrighted work of what was then the Ordnance Survey of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**

|         |         |
|---------|---------|
| 000 08  | 010 05  |
| 1880    | 1875    |
| 1:2,500 | 1:2,500 |
| <hr/>   |         |
| 000 12  | 010 06  |
| 1883    | 1882    |
| 1:2,500 | 1:2,500 |

**Historical Map - Segment A12**



**Order Details**

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



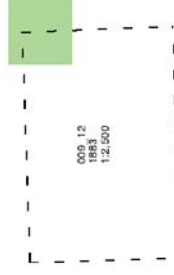
## Kent

### Published 1883

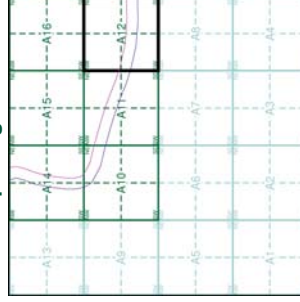
#### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale maps were published by the Ordnance Survey, which had covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

#### Map Name(s) and Date(s)



#### Historical Map - Segment A12



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

#### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

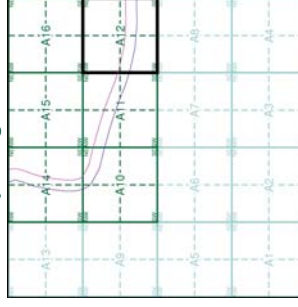


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. It is important to note that the maps were surveyed and published by 1896. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**

|        |      |         |
|--------|------|---------|
| 090.06 | 1897 | 1:2,500 |
| 010.05 | 1897 | 1:2,500 |
| 009.12 | 1896 | 1:2,500 |
| 010.06 | 1896 | 1:2,500 |

**Historical Map - Segment A12**

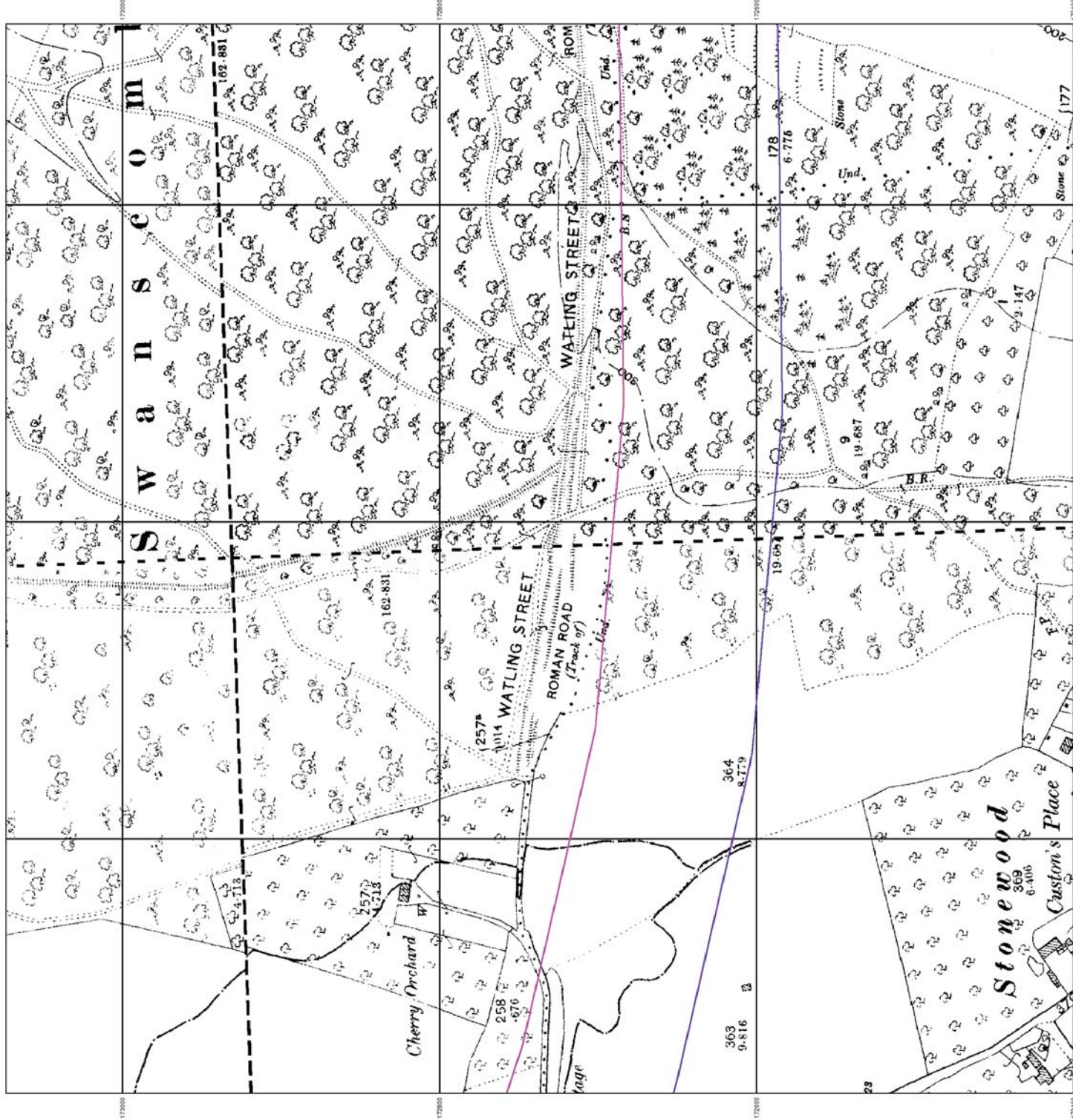


**Order Details**

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



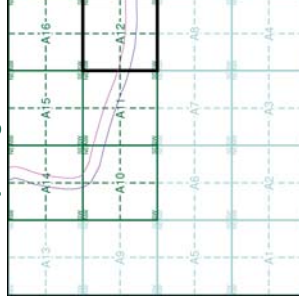


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. 1864 the Ordnance Survey (OS) began to publish maps of the whole of Great Britain. The published date given below is often many years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

|         |         |
|---------|---------|
| 090.06  | 010.06  |
| 1909    | 1909    |
| 1:2,500 | 1:2,500 |

Historical Map - Segment A12

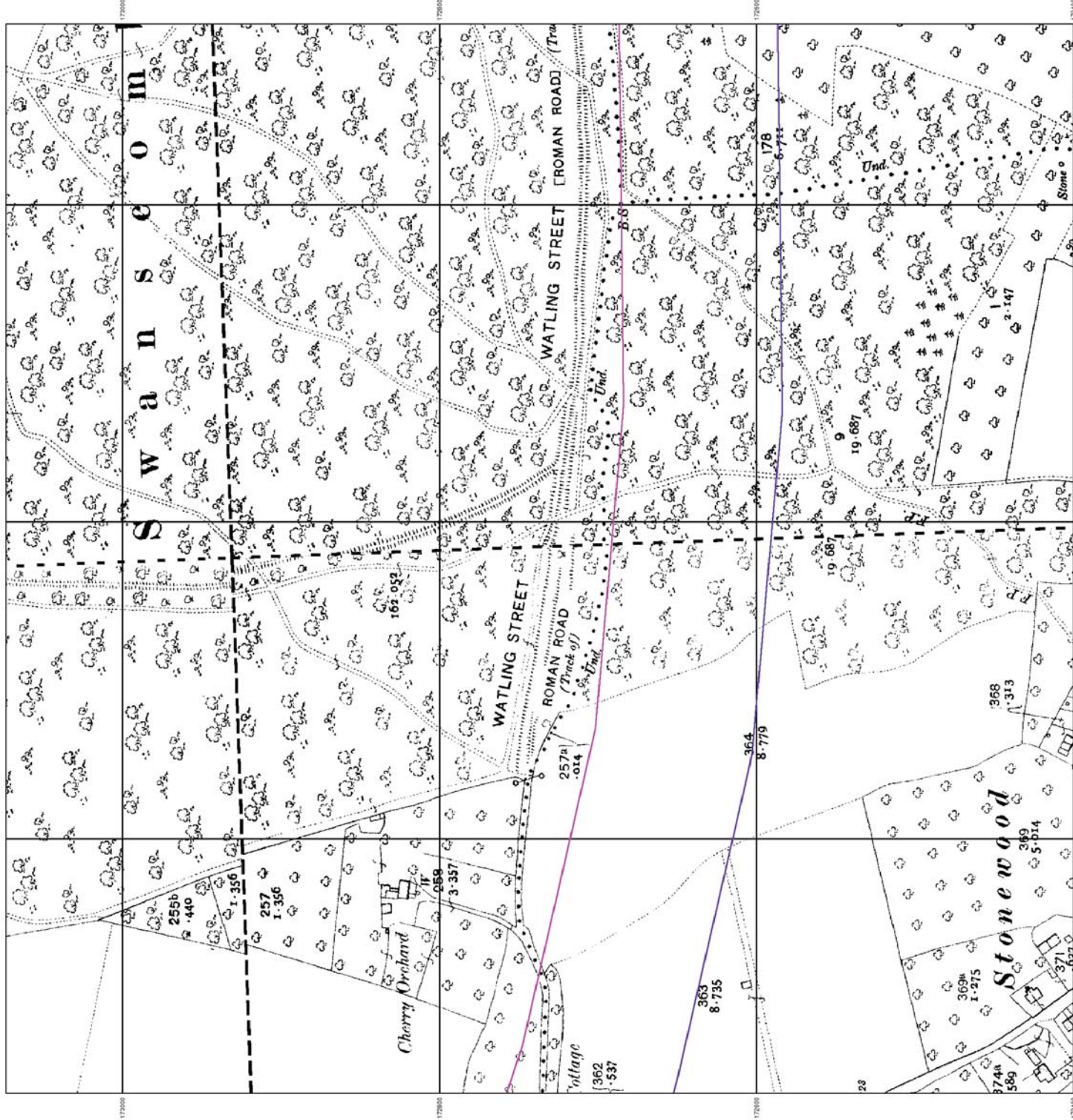


Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



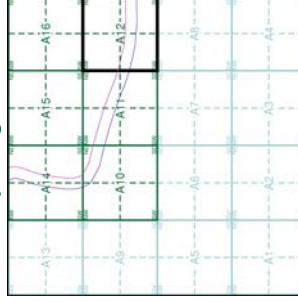


The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. 1864 the Ordnance Survey (OS) maps were replaced by the 1886 OS maps. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|         |         |
|---------|---------|
| 000.06  | 010.05  |
| 1938    | 1938    |
| 1:2,500 | 1:2,500 |
| 000.12  | 010.06  |
| 1938    | 1938    |
| 1:2,500 | 1:2,500 |

### Historical Map - Segment A12

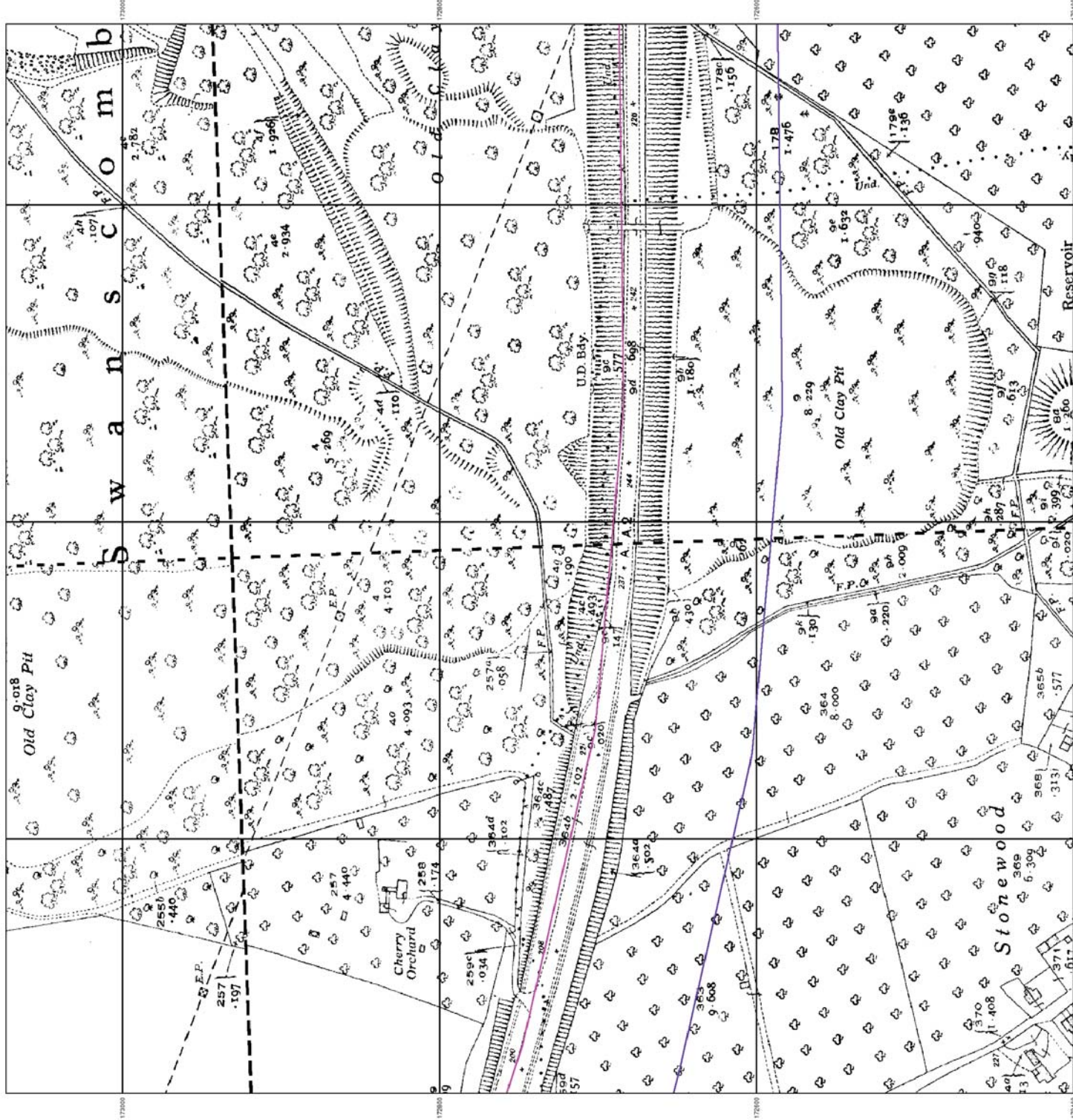


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Ordnance Survey Plan

Published 1961 - 1963

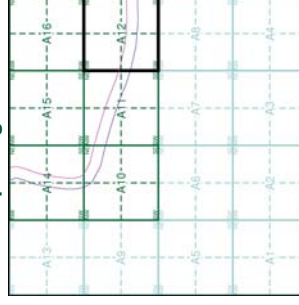
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale for England, Wales and Scotland in the 1940s. In 1964, the Ordnance Survey (OS) decided to reissue these maps, but to improve the quality of the data, they were re-surveyed by 1966. It is important to note that the published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|        |      |        |
|--------|------|--------|
| TS0573 | 1961 | 12,500 |
| TS0573 | 1961 | 12,500 |
| TS0572 | 1962 | 12,500 |
| TS0572 | 1962 | 12,500 |

### Historical Map - Segment A12

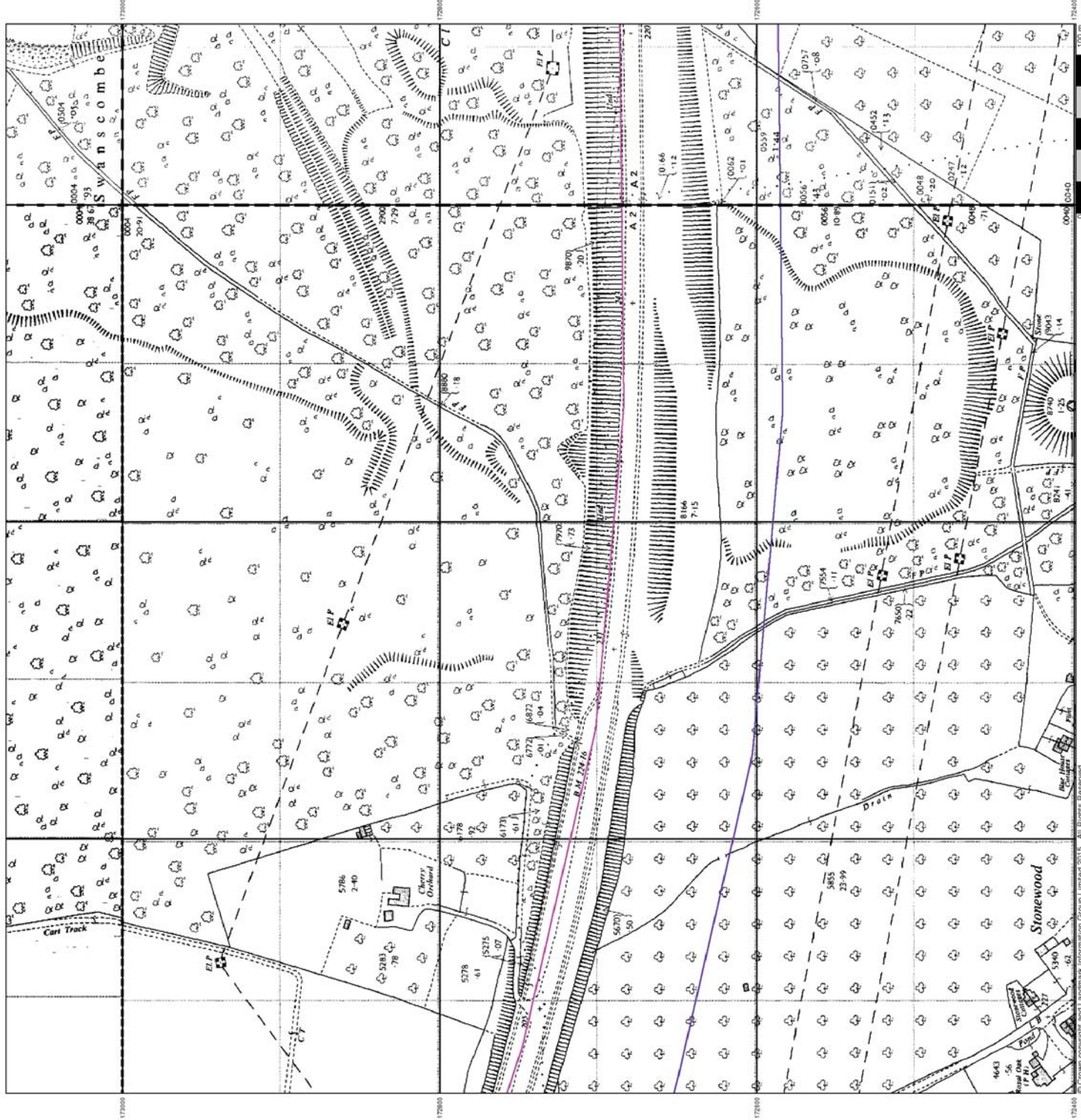


### Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





## Ordnance Survey Plan

Published 1968 - 1978

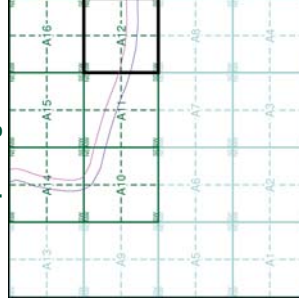
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were then reissued by Ordnance Survey in 1968. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|         |      |        |
|---------|------|--------|
| TS05973 | 1978 | 12,500 |
| TS05972 | 1978 | 12,500 |

### Historical Map - Segment A12



### Order Details

Order Number: 893040408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Additional SIMs

Published 1978 - 1987

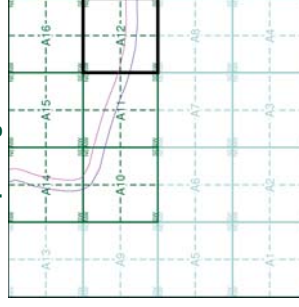
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s. They contain information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

|         |      |         |
|---------|------|---------|
| TO60773 | 1978 | 1:2,500 |
| TO60772 | 1970 | 1:2,500 |
| TO60772 | 1987 | 1:2,500 |

## Historical Map - Segment A12



## Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



**Ordnance Survey Plan  
Published 1986  
Source map scale - 1:2,500**

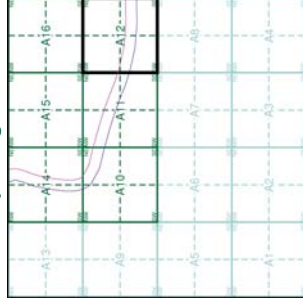
The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s to 1954 and the 1:2,500 scale was adopted for the Ordnance Survey by 1986. It covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**

TS8073  
1986  
1:2,500



**Historical Map - Segment A12**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



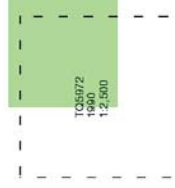
## Additional SIMs

### Published 1990

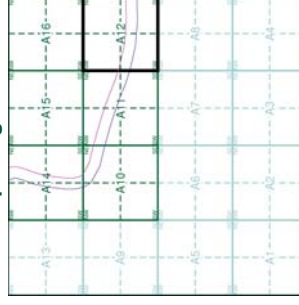
### Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s and 1980s. They contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A12



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



|        |      |        |        |      |        |
|--------|------|--------|--------|------|--------|
| TC5973 | 1992 | 12,500 | TC6073 | 1992 | 12,500 |
| TC5972 | 1992 | 12,500 | TC6072 | 1992 | 12,500 |

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
A  
Slice:  
Site Area (Ha): 272.38  
Search Buffer (m): 100

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Large-Scale National Grid Data

Published 1993

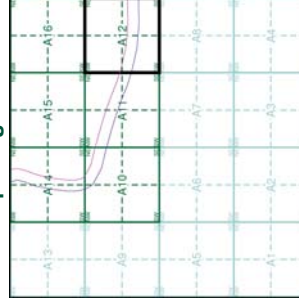
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Great Britain) in 1992, and continued to be produced until 1999. These maps were originally produced at a scale of 1:2,500 and provide detailed information on roads and other topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|         |         |
|---------|---------|
| TC5973  | TC6073  |
| 1993    | 1993    |
| 1:2,500 | 1:2,500 |
| TC5972  | TC6072  |
| 1993    | 1993    |
| 1:2,500 | 1:2,500 |

### Historical Map - Segment A12



### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 558920, 172840  
 Slice: A  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF

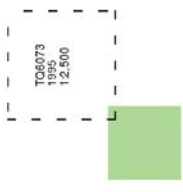




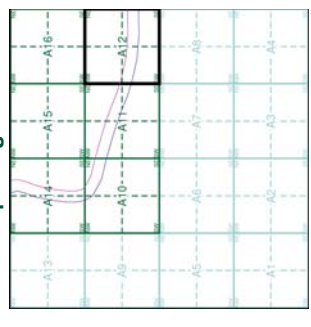
**Large-Scale National Grid Data**  
**Published 1995**  
**Source map scale - 1:2,500**

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survival Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were originally produced for the purpose of providing detailed information on houses and roads, but later on less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A12**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



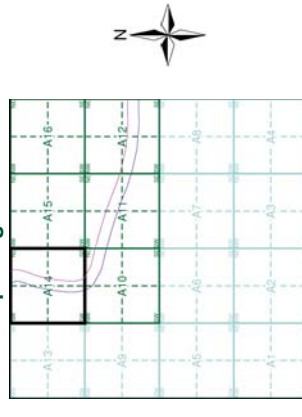
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



### Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date | Pg |
|--------------------------------|---------|------|----|
| Kent                           | 1:2,500 | 1880 | 2  |
| Kent                           | 1:2,500 | 1897 | 3  |
| Kent                           | 1:2,500 | 1909 | 4  |
| Kent                           | 1:2,500 | 1938 | 5  |
| Ordinance Survey Plan          | 1:2,500 | 1963 | 6  |
| Additional SIs                 | 1:2,500 | 1963 | 7  |
| Additional SIs                 | 1:2,500 | 1978 | 8  |
| Additional SIs                 | 1:2,500 | 1986 | 9  |
| Large-Scale National Grid Data | 1:2,500 | 1992 | 10 |
| Large-Scale National Grid Data | 1:2,500 | 1993 | 11 |

## Historical Map - Segment A14



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



**Tel:** 0844 844 9952  
**Fax:** 0844 844 9951  
**Web:** [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

A Landmark Information Group Service v49.0 22-Jun-2016 Page 1 of 11

## Historical Mapping Legends

## Large-Scale National Grid Data 1:2,500 and 1:1,250

**Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information**  
1:2,500 and 1:1,250

| Slopes                                                                                  |                                     | Top            |                                 |
|-----------------------------------------------------------------------------------------|-------------------------------------|----------------|---------------------------------|
|                                                                                         | Cliff                               |                | Top                             |
|                                                                                         | Rock                                |                | Rock (scattered)                |
|                                                                                         | Boulders                            |                | Boulders (scattered)            |
|                                                                                         | Positioned Boulder                  |                | Scre                            |
|                                                                                         | Non-Coniferous Tree (surveyed)      |                | Coniferous Tree (surveyed)      |
|                                                                                         | Non-Coniferous Trees (not surveyed) |                | Coniferous Trees (not surveyed) |
|                                                                                         | Orchard Tree                        |                | Scrub                           |
|                                                                                         | Copice, Osier                       |                | Reeds                           |
|                                                                                         | Rough Grassland                     |                | Heath                           |
|                                                                                         | Direction of water flow             |                | Triangulation Station           |
|                                                                                         | Electricity Transmission Line       |                | Electricity Pylon               |
|                                                                                         | Bench Mark                          |                | Buildings with Building Seed    |
|                                                                                         | Roofed Building                     |                | Glazed Roof Building            |
| Civil parish/community boundary                                                         |                                     |                |                                 |
| District boundary                                                                       |                                     |                |                                 |
| County boundary                                                                         |                                     |                |                                 |
| Boundary post/stone                                                                     |                                     |                |                                 |
| Boundary merging symbol (note: these always appear in opposed pairs or groups of three) |                                     |                |                                 |
| Bks                                                                                     | Barracks                            | P              | Pillar, Pole or Post            |
| Bty                                                                                     | Battery                             | PO             | Post Office                     |
| Cem                                                                                     | Cemetery                            | PC             | Public Convenience              |
| Chy                                                                                     | Chimney                             | Pp             | Pump                            |
| Cis                                                                                     | Cistern                             | Ppg Sta        | Pumping Station                 |
| Dismtd Rly                                                                              | Dismantled Railway                  | PW             | Place of Worship                |
| El Gen Sta                                                                              | Electricity Generating Station      | Sewage Ppg Sta | Sewage Pumping Station          |
| El P                                                                                    | Electricity Pole, Pillar            | SB, S Br       | Signal Box or Bridge            |
| El Sub Sta                                                                              | Electricity Sub Station             | SP SL          | Signal Post or Light            |
| FB                                                                                      | Filter Bed                          | Spr            | Spring                          |
| Fn / D Fn                                                                               | Fountain / Drinking Fm.             | Tk             | Tank or Track                   |
| Gas Gov                                                                                 | Gas Valve Compound                  | Tr             | Trough                          |
| GVC                                                                                     | Gas Governor                        | Wd Pp          | Wind Pump                       |
| GP                                                                                      | Guide Post                          | WP/WT          | Water Point, Water Tap          |
| MH                                                                                      | Minehole                            | Wks            | Works (building or area)        |
| MP, MS                                                                                  | Mile Post or Mile Stone             | W              | Well                            |

|  |                                              |  |                        |  |                                       |  |                 |  |                    |  |                                   |  |                               |  |                                    |  |                               |  |                                |  |                                |  |                        |  |                                       |  |                                |  |                                                        |  |                       |  |                                       |  |                         |  |                                                        |  |      |  |                      |  |                      |  |        |  |               |  |                    |  |                     |  |        |  |            |  |           |  |      |  |           |
|--|----------------------------------------------|--|------------------------|--|---------------------------------------|--|-----------------|--|--------------------|--|-----------------------------------|--|-------------------------------|--|------------------------------------|--|-------------------------------|--|--------------------------------|--|--------------------------------|--|------------------------|--|---------------------------------------|--|--------------------------------|--|--------------------------------------------------------|--|-----------------------|--|---------------------------------------|--|-------------------------|--|--------------------------------------------------------|--|------|--|----------------------|--|----------------------|--|--------|--|---------------|--|--------------------|--|---------------------|--|--------|--|------------|--|-----------|--|------|--|-----------|
|  | Inactive Quarry,<br>Chalk Pit or<br>Clay Pit |  | Rock                   |  | Non-Coniferous Tree<br>(not surveyed) |  | Orchard<br>Tree |  | Copse,<br>Osier    |  | Rough<br>Grassland                |  | Direction<br>of water flow    |  | Cave<br>Entrance                   |  | Electricity Transmission Line |  | County Boundary (Geographical) |  | County & Civil Parish Boundary |  | Civil Parish Boundary  |  | Admin. County or County Bor. Boundary |  | London Borough Boundary        |  | Symbol marking point where boundary<br>mereing changes |  |                       |  |                                       |  |                         |  |                                                        |  |      |  |                      |  |                      |  |        |  |               |  |                    |  |                     |  |        |  |            |  |           |  |      |  |           |
|  | Active Quarry,<br>Chalk Pit or<br>Clay Pit   |  | Boulders               |  | Slopes                                |  | Roofed Building |  | Sloping<br>Masonry |  | Non-Coniferous Tree<br>(surveyed) |  | Coniferous Tree<br>(surveyed) |  | Coniferous Trees<br>(not surveyed) |  | Bracken                       |  | Marsh,<br>Saltings             |  | Culvert                        |  | Antiquity<br>(site of) |  | Electricity<br>Pylon                  |  | County Boundary (Geographical) |  | County & Civil Parish Boundary                         |  | Civil Parish Boundary |  | Admin. County or County Bor. Boundary |  | London Borough Boundary |  | Symbol marking point where boundary<br>mereing changes |  |      |  |                      |  |                      |  |        |  |               |  |                    |  |                     |  |        |  |            |  |           |  |      |  |           |
|  | Beer House                                   |  | Boundary Post or Stone |  | Capstan, Crane                        |  | Chimney         |  | Drinking Fountain  |  | Electricity Pillar of Post        |  | Fire Alarm Pillar             |  | Foot Bridge                        |  | Guide Post                    |  | Hydrant or Hydraulic           |  | Level Crossing                 |  | Milestone              |  | Mile Post or Mooring Post             |  | Normal Tidal Limit             |  | N.T.L.                                                 |  | Pillar, Pole or Post  |  | Post Office                           |  | Public Convenience      |  | Public House                                           |  | Pump |  | Signal Box or Bridge |  | Signal Post or Light |  | Spring |  | Tank or Track |  | Telephone Call Box |  | Telephone Call Post |  | Trough |  | WaterPoint |  | Water Tap |  | Well |  | Wind Pump |

**Ordinance Survey County Series and  
Ordinance Survey Plan 1:2,500**

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quarry                                                                              | Clay Pit                                                                            | Sloping Masonry                                                                     | Marsh                                                                               | Rough Pasture                                                                       | Mixed Wood                                                                          | Fir                                                                                 | Ferry                                                                               | Trig. Station                                                                       | Bench Mark                                                                          | Arrow denotes flow of water                                                         | Embankment                                                                          | Cutting                                                                             | Railway crossing Road                                                               | Railway crossing River or Canal                                                      | Road over single stream                                                               | Road over River or Canal                                                              | Road crossing Railway                                                                 | Road over River or Canal                                                              | County Boundary (Geographical)                                                        | County & Civil Parish Boundary                                                        | Administrative County & Civil Parish Boundary                                         | County Borough Boundary (England)                                                     | County Borough Boundary (Scotland)                                                    | Police Call Box                                                                       | Signal Post                                                                           | Sluice                                                                                | Spring                                                                                | Telephone Call Box                                                                    | Trough                                                                                | Well                                                                                  |

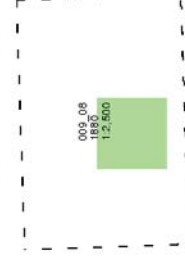
## Kent

Published 1880

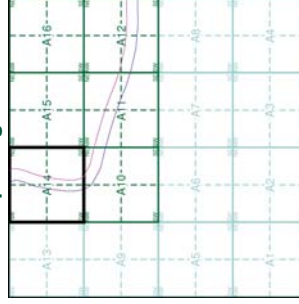
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840s. The 1:2,500 scale maps were first published in 1880, and the 1:10,000 scale maps were first published in 1896. It is important to note that the published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A14

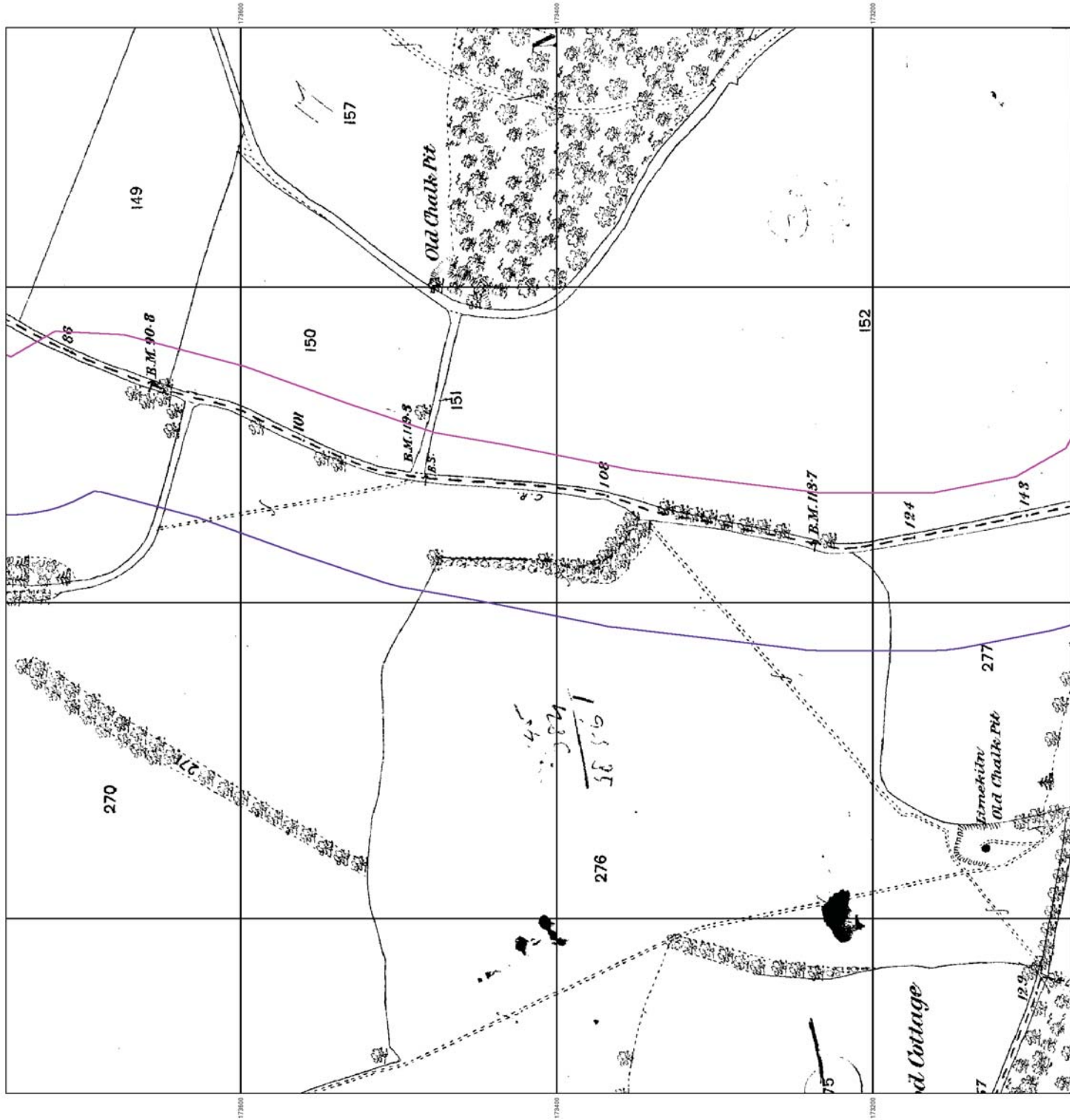


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





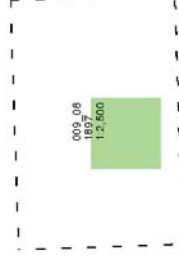
## Kent

Published 1897

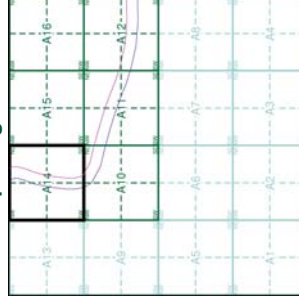
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were produced by the Ordnance Survey in 1897. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A14

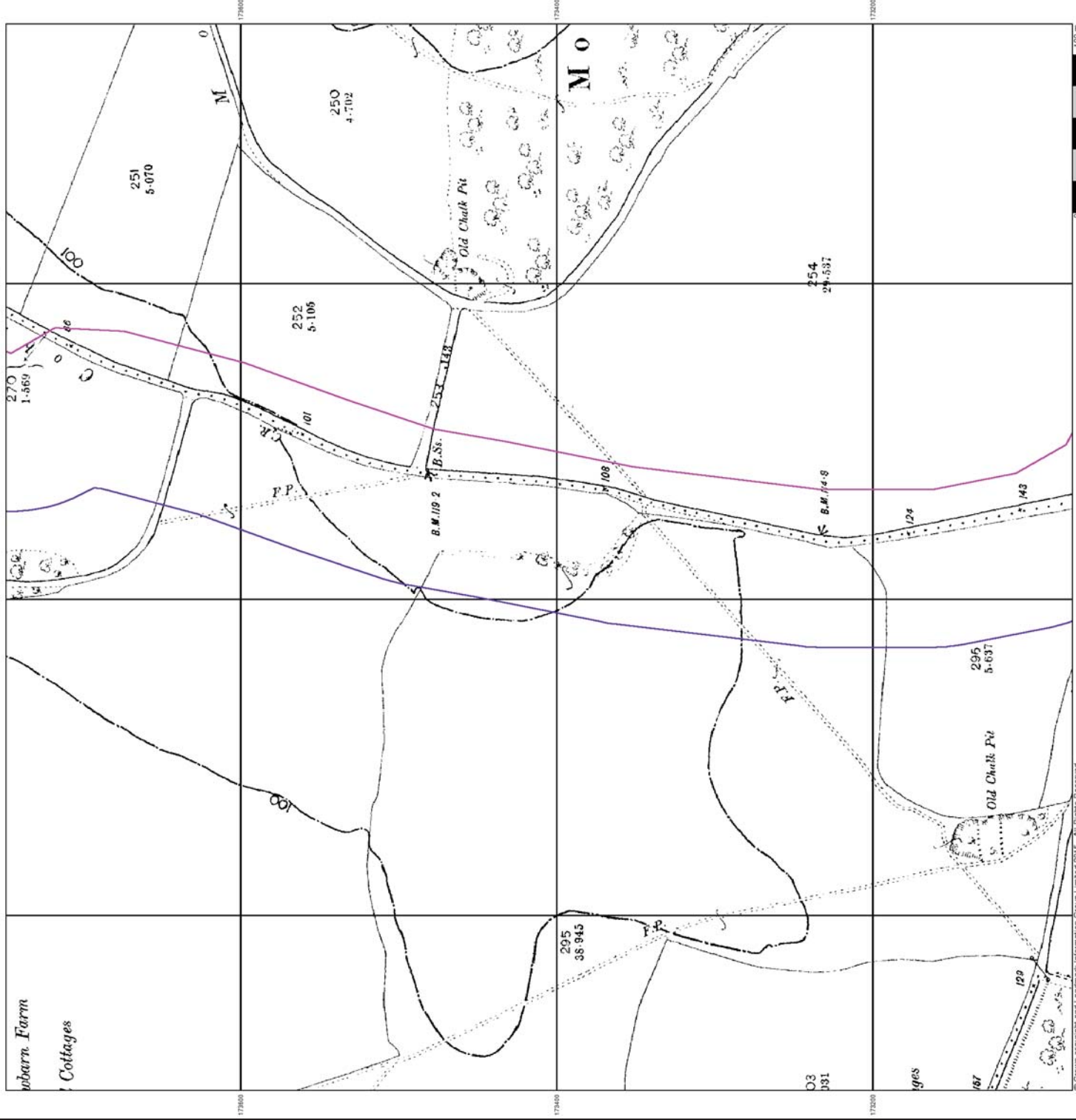


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

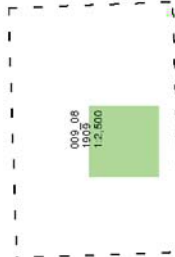
## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

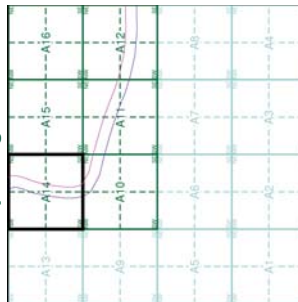


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1898 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A14



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
A  
Slice:  
Site Area (Ha): 272.38  
Search Buffer (m): 100

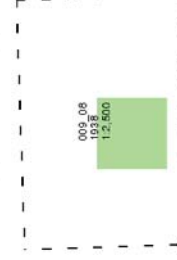
## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent. DA10 0DF

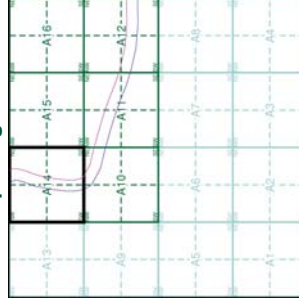


The historical maps shown are reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were first published in 1864 and the 1:10,000 scale maps were first published in 1896. It is important to note that the whole of what was considered to be the unincorporated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A14**

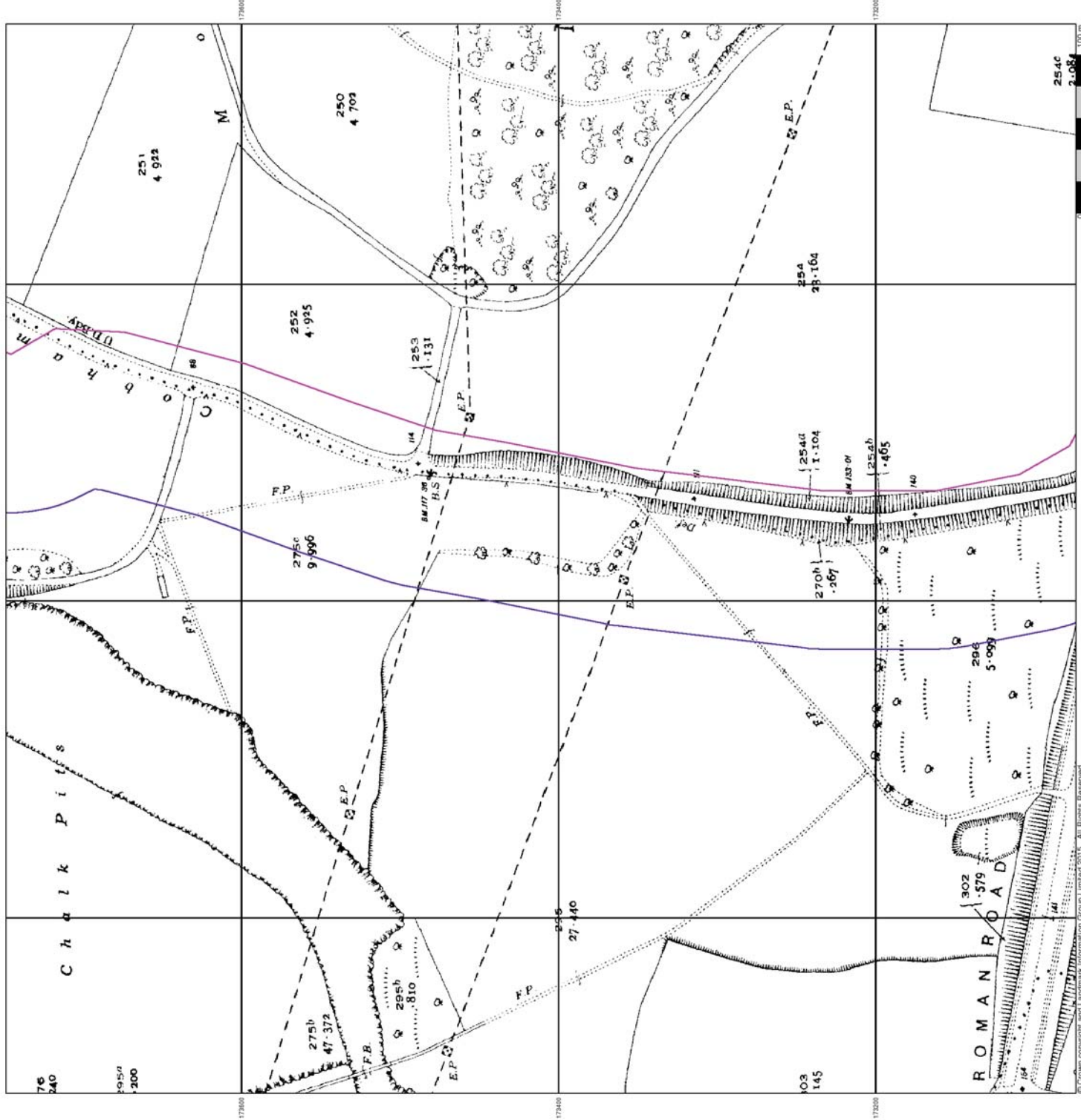


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



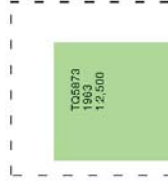
## Ordinance Survey Map

Published 1963

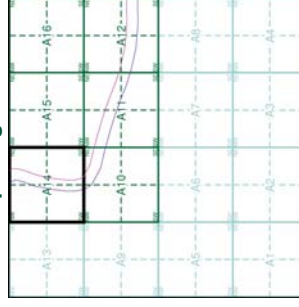
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, and are based on the 1:2,500 scale maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A14



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

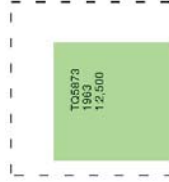




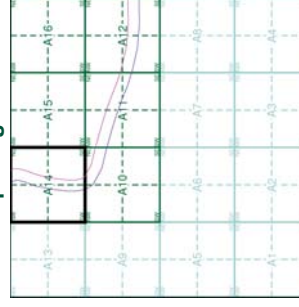
# Additional SIMs Published 1963 Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of the mapping which were produced and published in 1947 to base the then current Ordnance Survey maps on the data collected from 1947 to 1934, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A14

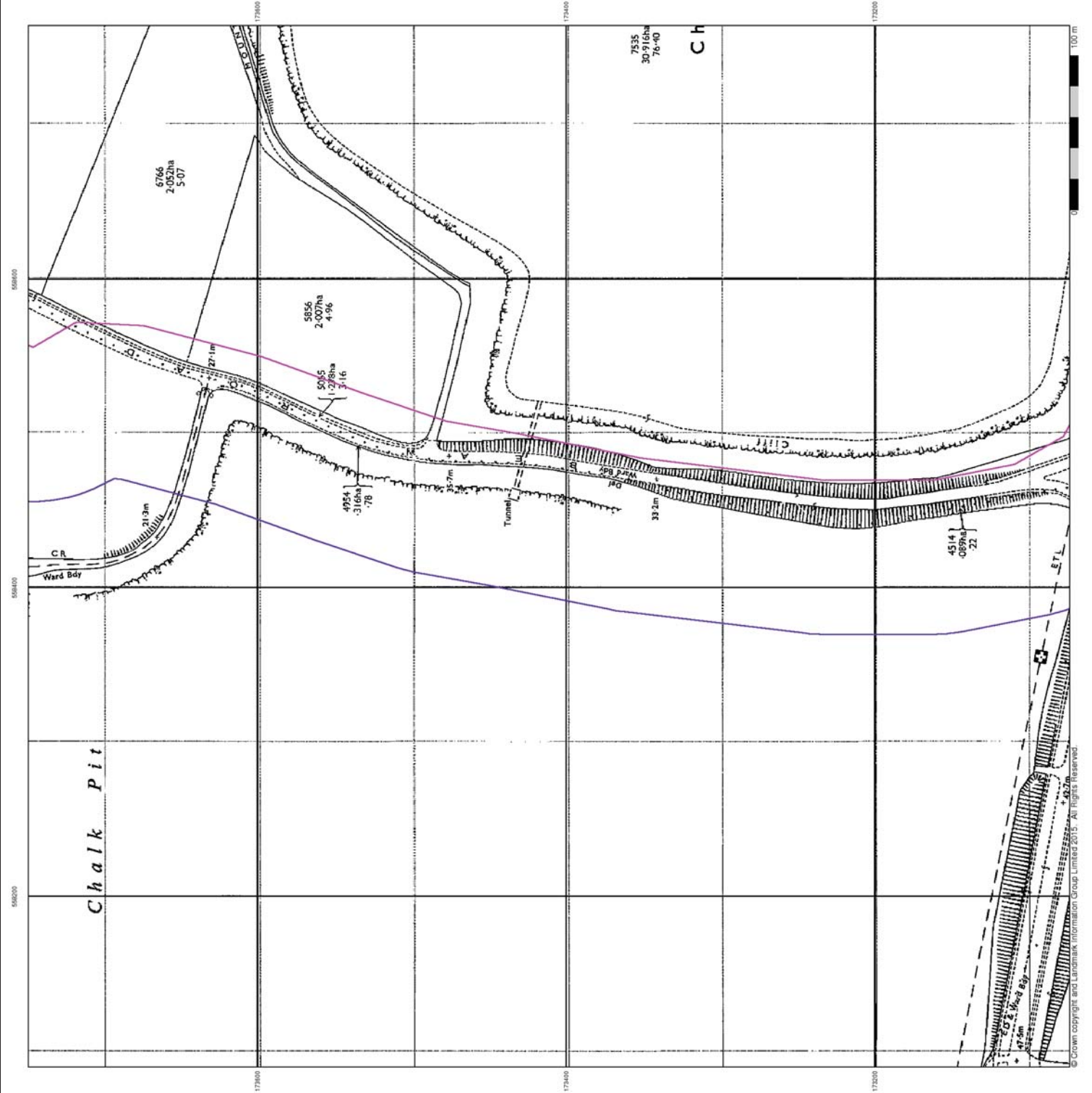


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 588920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

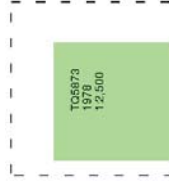
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



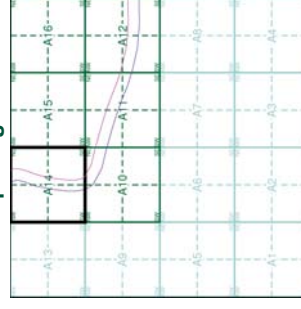
# Additional SIMs Published 1978 Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further information mapping which were produced and published in 1978. They contain information on the environment, including the 1947 to 1994, and contain details on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A14

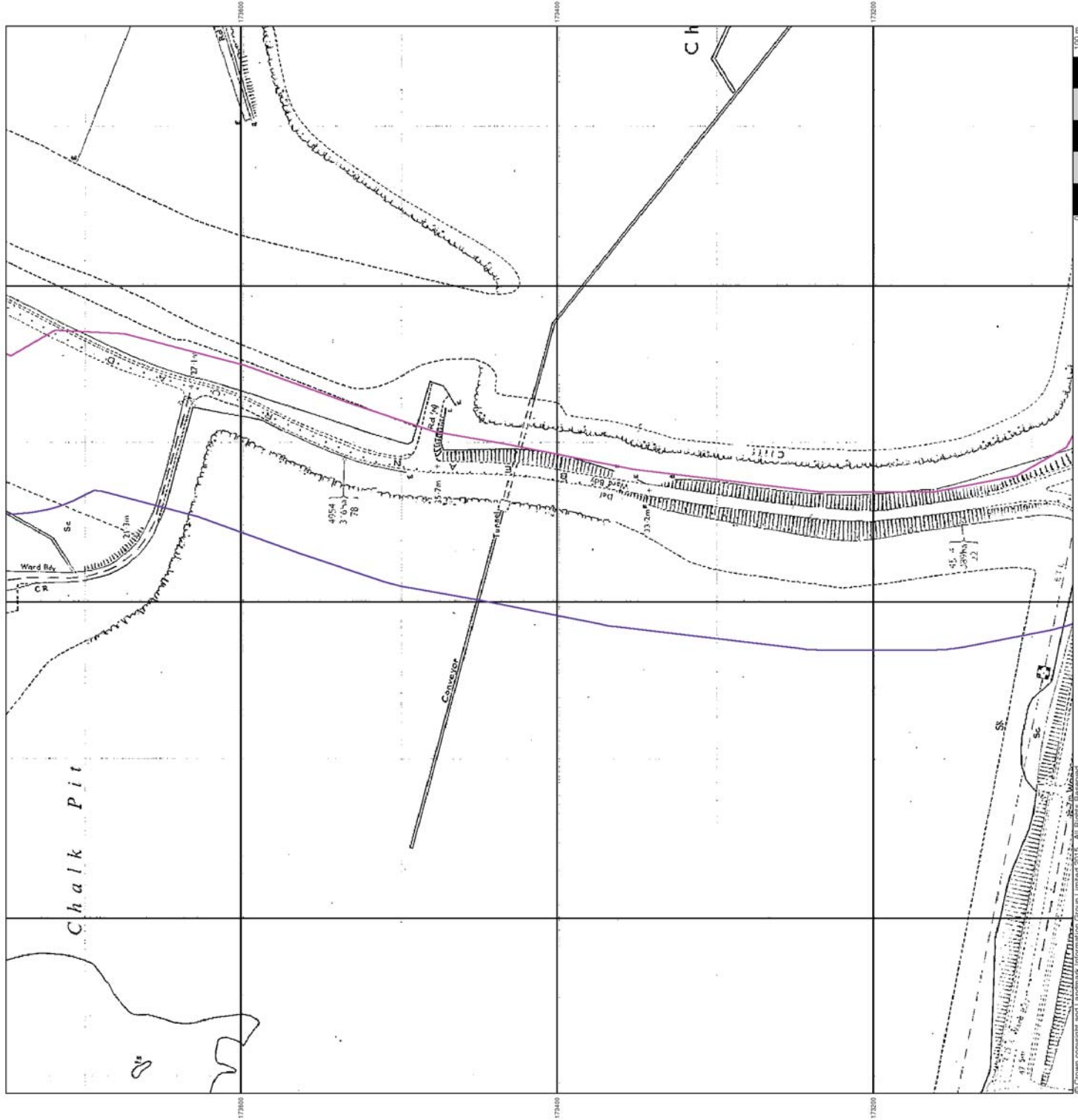


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

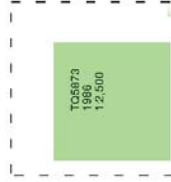




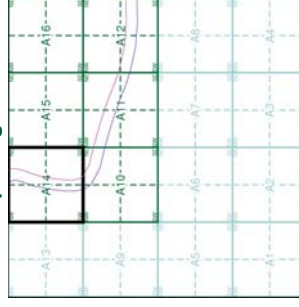
# Additional SIMs Published 1986 Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in 1986. They contain information on the environment in Great Britain from 1947 to 1984, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A14



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Large-Scale National Grid Data

Published 1992

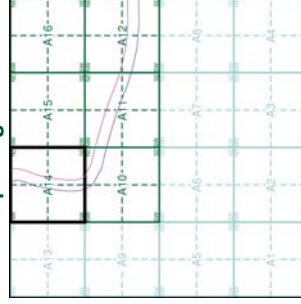
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were produced by digitising aerial photographs to provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A14



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





## Large-Scale National Grid Data

Published 1993

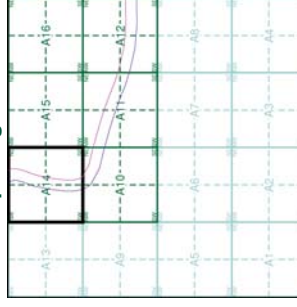
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Great Britain) in 1992, and continued to be produced until 1999. These maps were produced by digitising aerial photographs and provide detailed information on roads, railways, and other topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A14

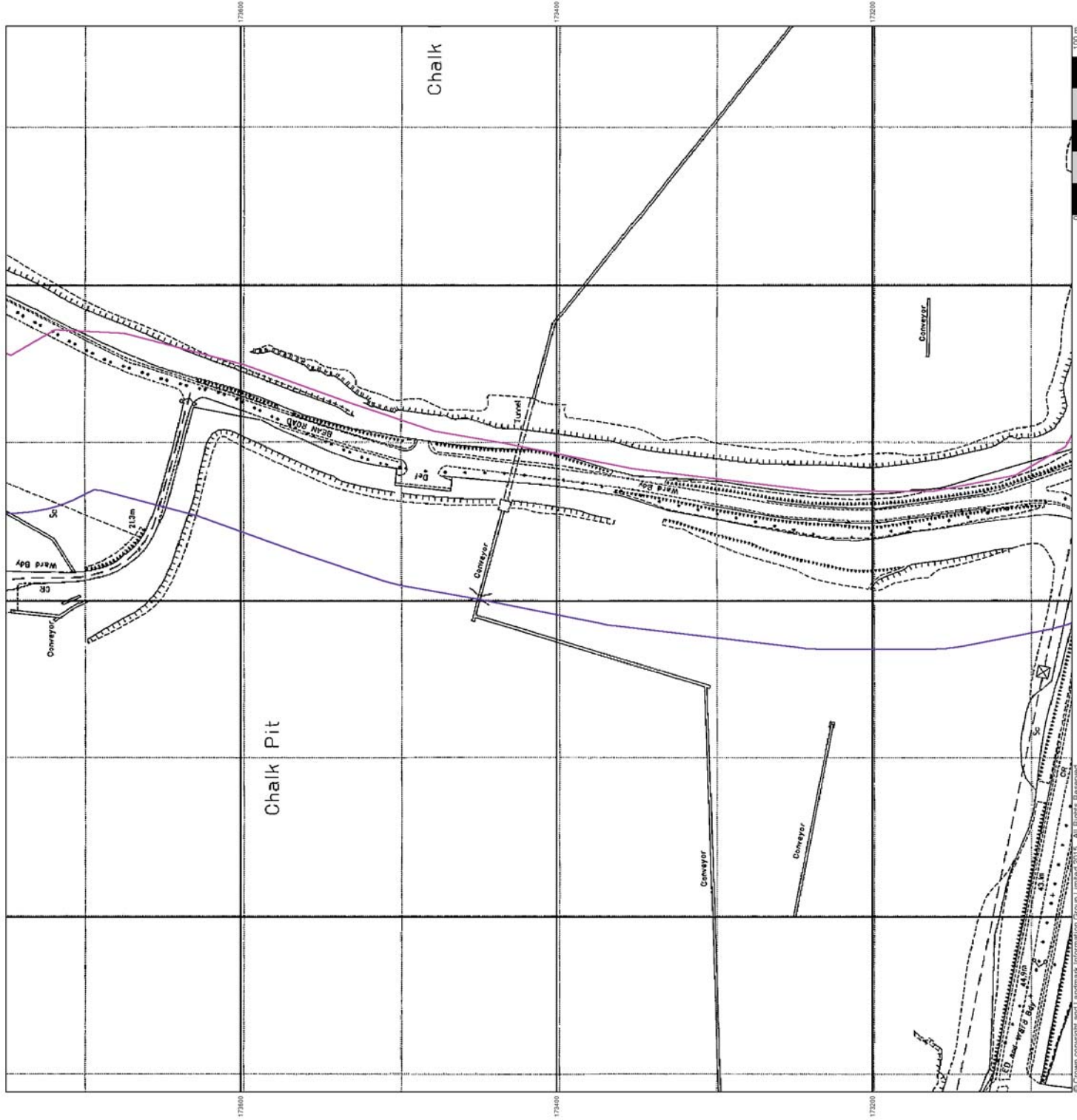


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





**Envirocheck®**

**Large-Scale National Grid Data 1:2,500 and 1:1,250**

1:2,500 and 1:1,250

|  |                                                     |  |                                            |
|--|-----------------------------------------------------|--|--------------------------------------------|
|  | Inactive Quarry,<br>Chalk Pit or<br>Clay Pit        |  | Active Quarry,<br>Chalk Pit or<br>Clay Pit |
|  | Rock                                                |  | Boulders                                   |
|  | Slopes                                              |  | Top                                        |
|  | Cliff                                               |  | Glazed Roof<br>Building                    |
|  | Roofed Building                                     |  | Archway                                    |
|  | Non-Confiferous Tree<br>(not surveyed)              |  | Non-Confiferous Tree<br>(surveyed)         |
|  | Non-Confiferous Trees<br>(not surveyed)             |  | Non-Confiferous Trees<br>(not surveyed)    |
|  | Orchard<br>Tree                                     |  | Scrub                                      |
|  | Coppice,<br>Osier                                   |  | Reeds                                      |
|  | Rough<br>Grassland                                  |  | Heath                                      |
|  | Direction<br>of water flow                          |  | Bench<br>Mark                              |
|  | Cave<br>Entrance                                    |  | Triangulation<br>Station                   |
|  | Electricity Transmission Line                       |  | County Boundary (Geographical)             |
|  | County & Civil Parish Boundary                      |  | Civil Parish Boundary                      |
|  | Admin. County or County Bor. Boundary               |  | London Borough Boundary                    |
|  | Symbol marking point where boundary<br>interchanges |  | Pillar, Pole or Post                       |
|  | Beer House                                          |  | Public Office                              |
|  | Boundary Post or Stone                              |  | Public Convenience                         |
|  | Capstan, Crane                                      |  | Public House                               |
|  | Chimney                                             |  | Pump                                       |
|  | Drinking Fountain                                   |  | Signal Box or Bridge                       |
|  | Electricity Pillar or Post                          |  | Signal Post or Light                       |
|  | Fire Alarm Pillar                                   |  | Spring                                     |
|  | Foot Bridge                                         |  | Tank or Track                              |
|  | Guide Post                                          |  | Telephone Call Box                         |
|  | Hydrant or Hydraulic<br>Level Crossing              |  | Telephone Call Post                        |
|  | Manhole                                             |  | Trough                                     |
|  | Mile Post or Measuring Post                         |  | Water Point, Water Tap                     |
|  | Mile Stone                                          |  | Well                                       |
|  | Normal Tidal Limit                                  |  | Wind Pn                                    |

Order Number: 8930408\_1\_1  
Customer Ref: 250122/100  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent. DA10 0DF



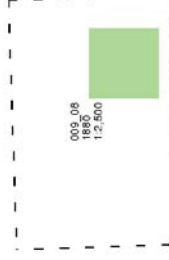
## Kent

### Published 1880

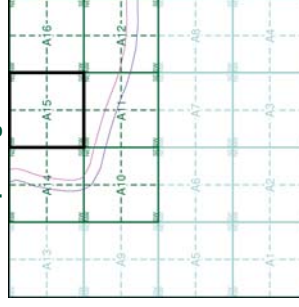
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were created in the 1840s and 1850s. The maps were created by the Ordnance Survey, which was established in 1841. The maps were created by the Ordnance Survey, which was established in 1841. The maps were created by the Ordnance Survey, which was established in 1841.

### Map Name(s) and Date(s)



### Historical Map - Segment A15

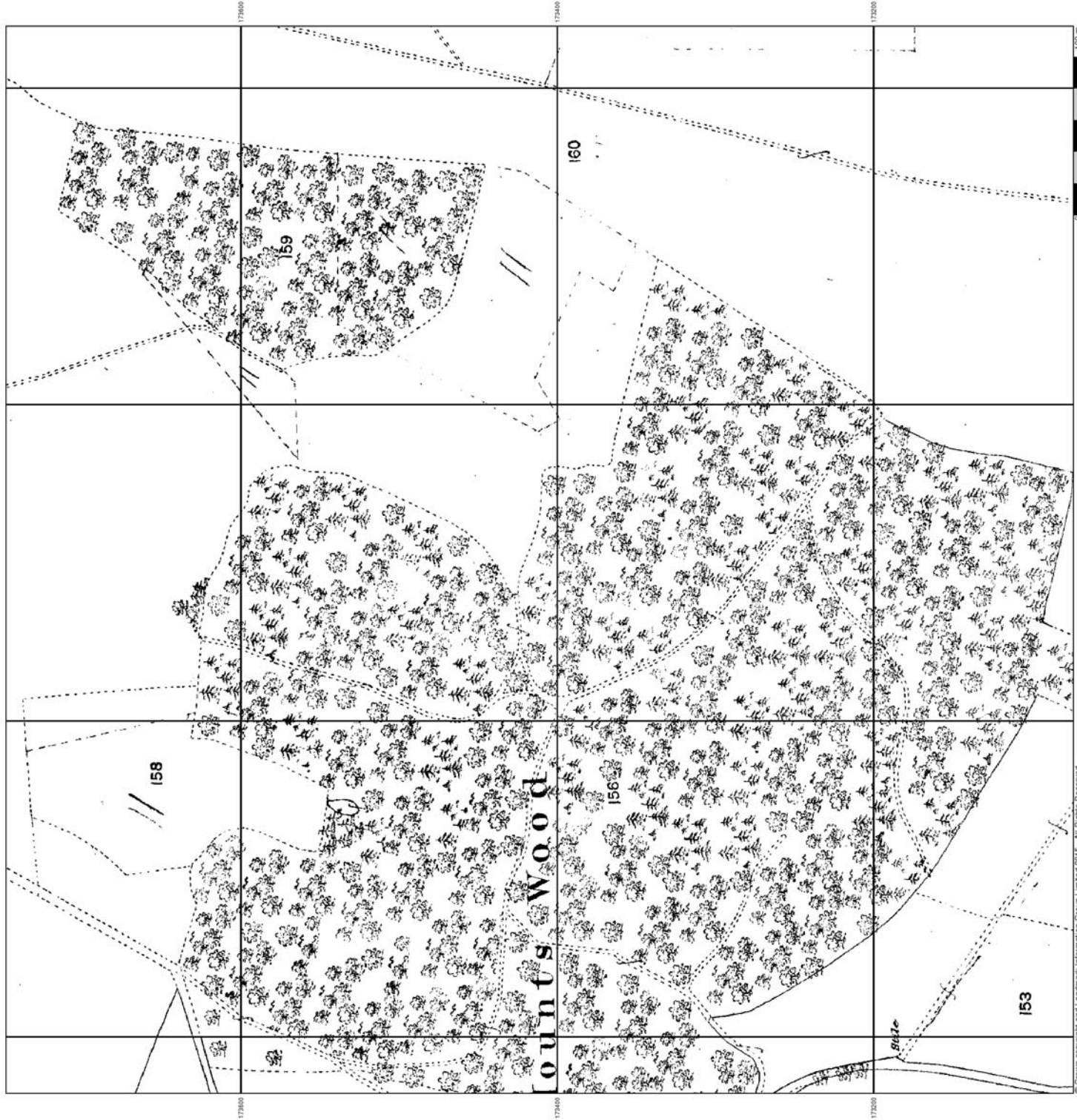


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

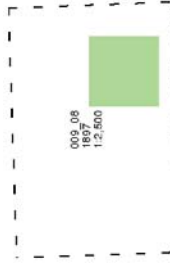
### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

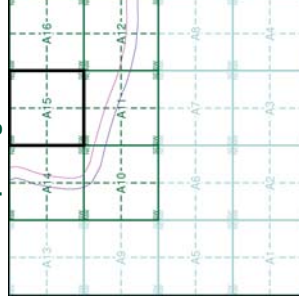


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale, which were adopted for England, Wales and Scotland in the 1940s. The 1897 map was inspired by the Ordnance Survey map of 1884, which was the first to show the whole of what was considered to be the unincorporated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A15**

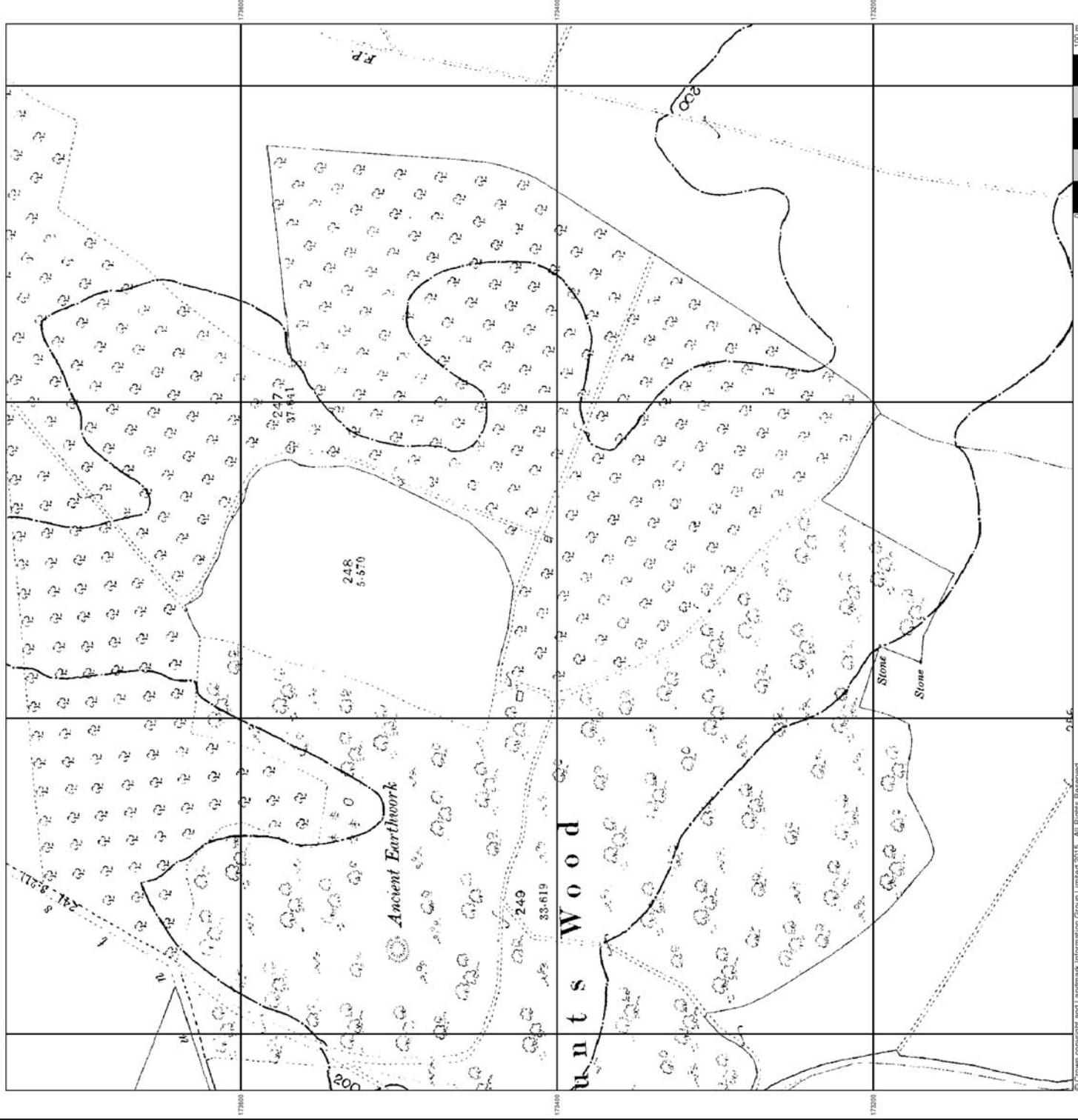


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

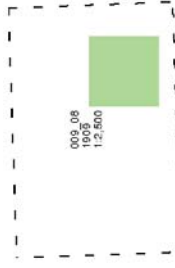
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



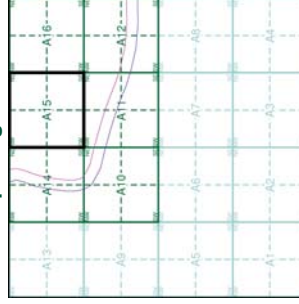


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1900s. The 1864 edition of the Ordnance Survey map of Kent was the first to be published at this scale. The whole of what was considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A15**

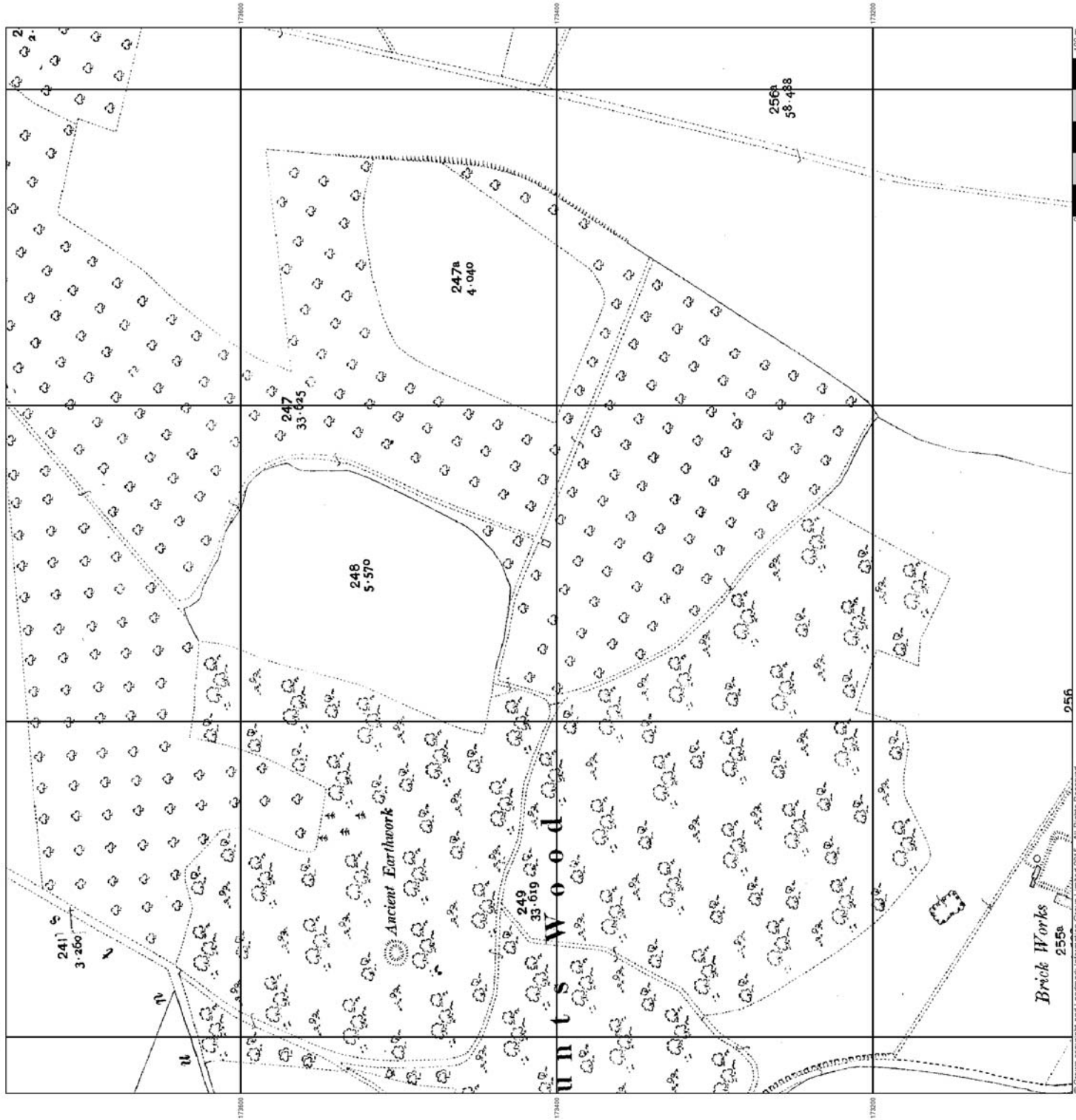


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

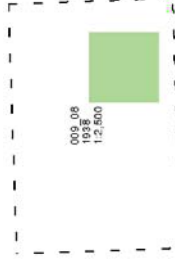
**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

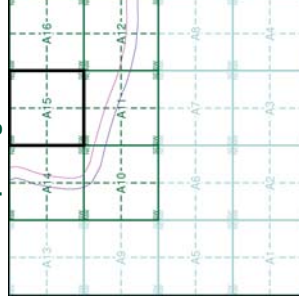


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were first published in 1864 and were revised and reissued in 1886. The maps were prepared to be the whole of what was then considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A15**

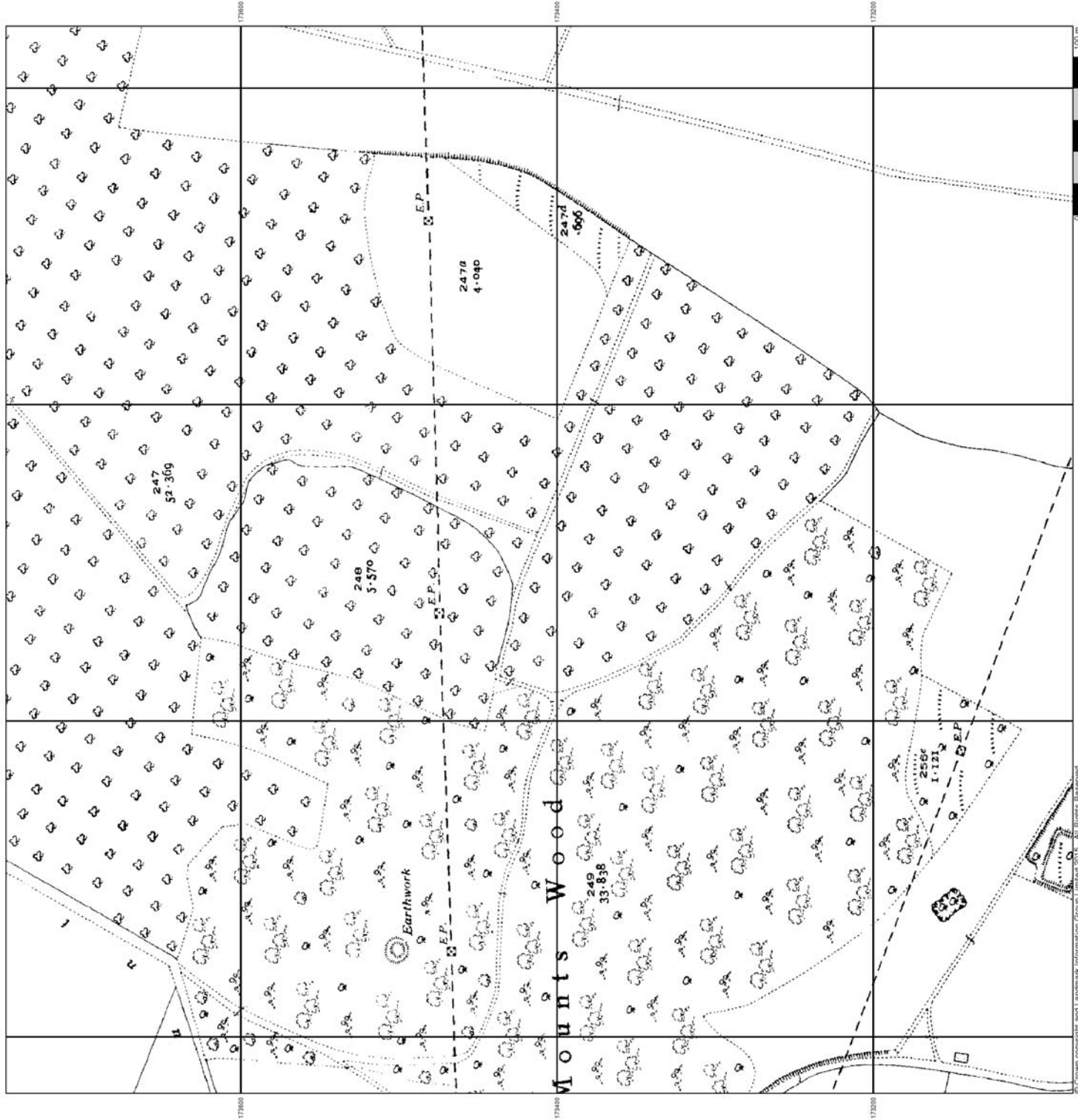


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





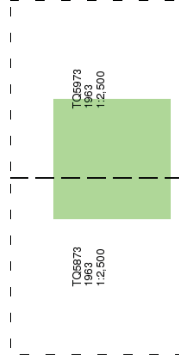
## Ordinance Survey Plan

Published 1963

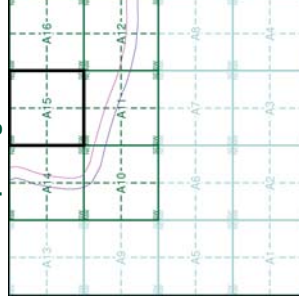
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840s. 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A15

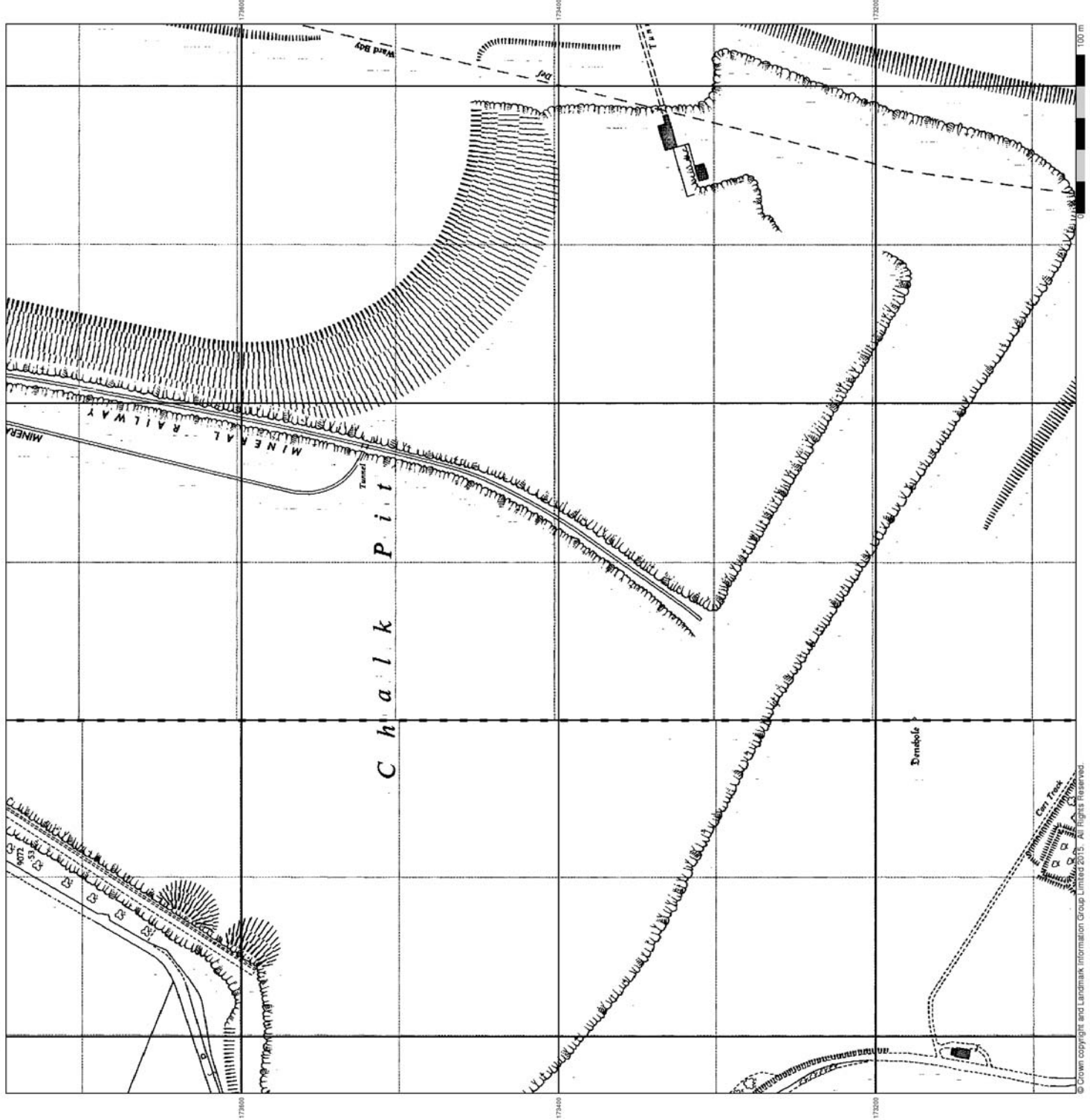


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

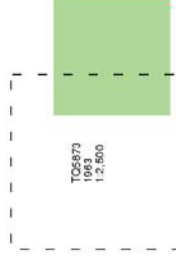
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



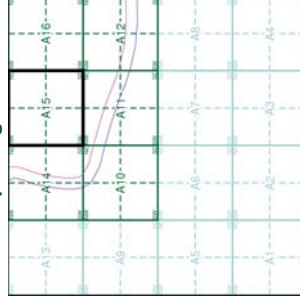
**Additional SIMs  
Published 1963  
Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in 1947 to be used in the early days of aerial reconnaissance. They were produced in 1947 to 1954 and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A15**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Ordinance Survey Plan

Published 1978

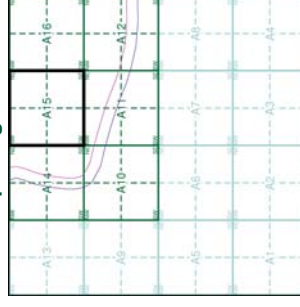
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were revised and updated by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

TD5673  
1978  
1:2,500

### Historical Map - Segment A15

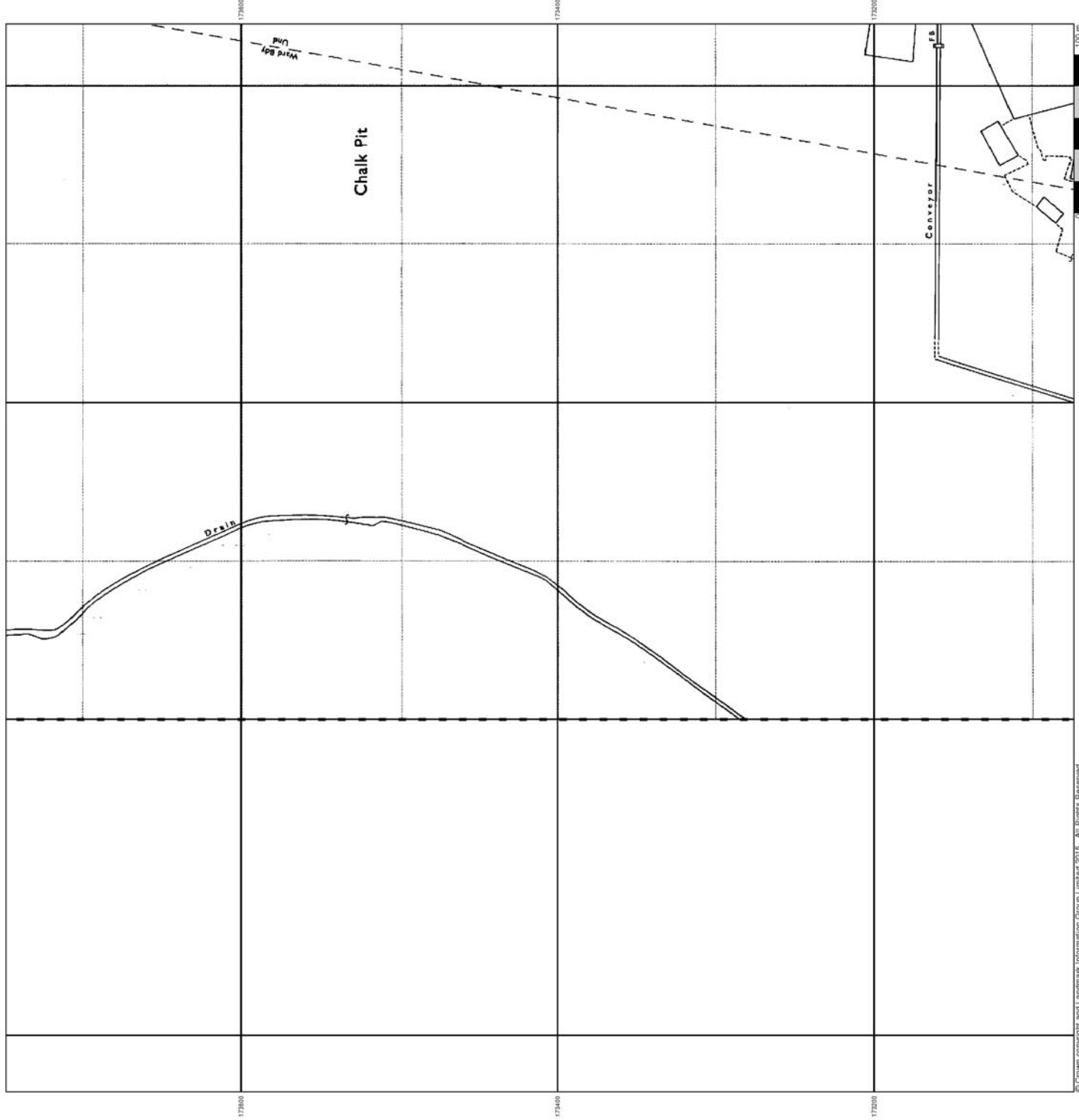


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

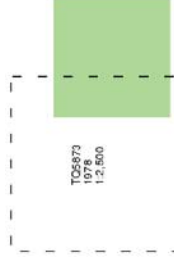
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



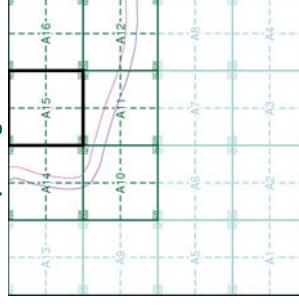
**Additional SIMs**  
**Published 1978**  
**Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in 1978. They contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A15**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

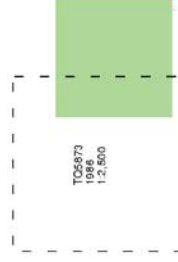
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



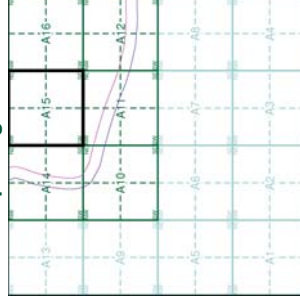
**Additional SIMs**  
**Published 1986**  
**Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in the 1970s and 1980s. They contain information on the land use in 1947 to 1984, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A15**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

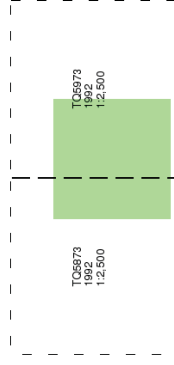
## Large-Scale National Grid Data

Published 1992

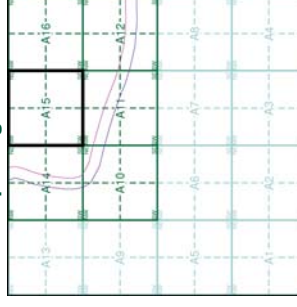
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive Information on Microfilm') in 1992, and continued to be produced until 1999. These maps are the original mapping at a scale of 1:2,500, and provide detailed information on the topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A15

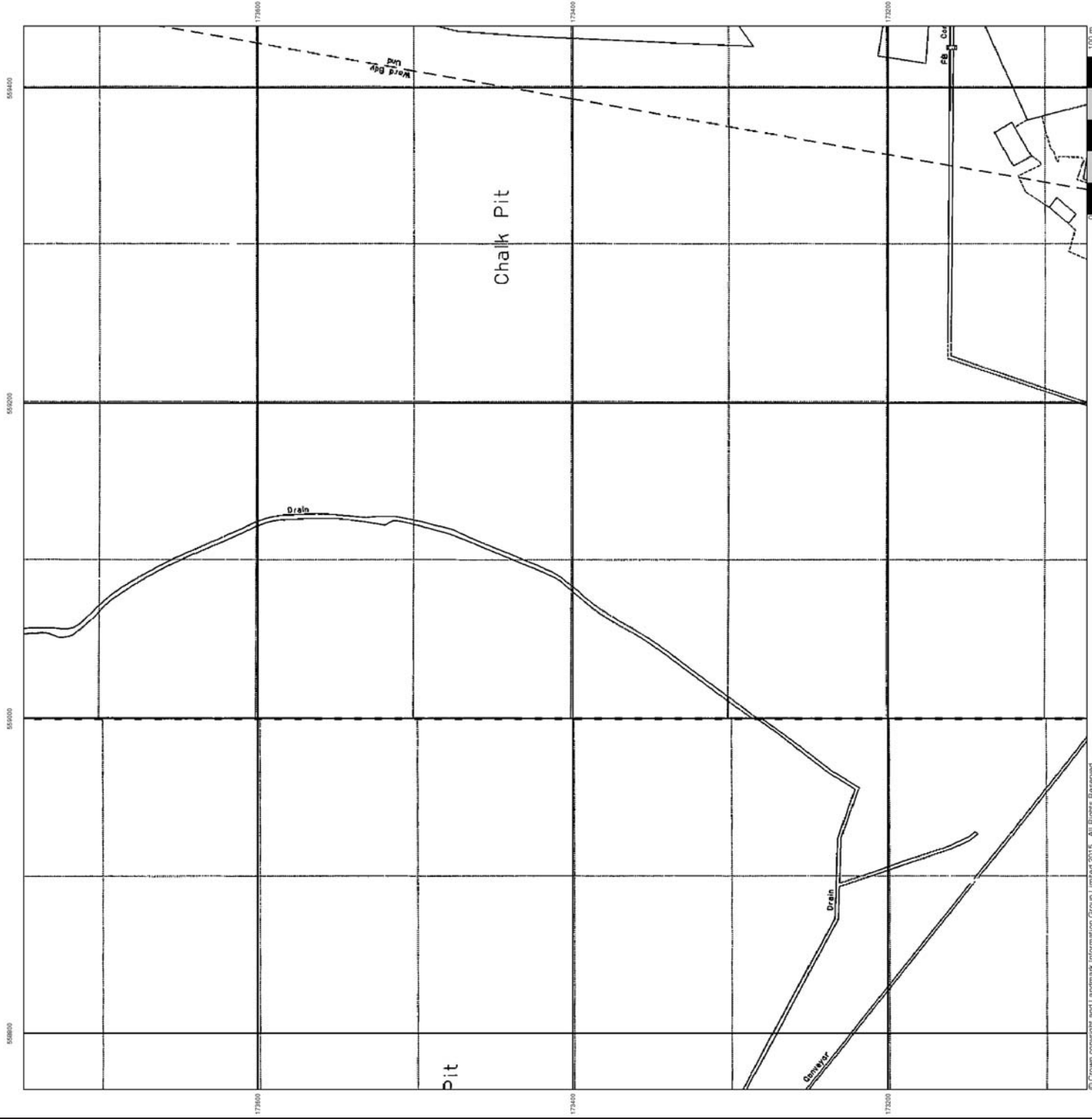


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





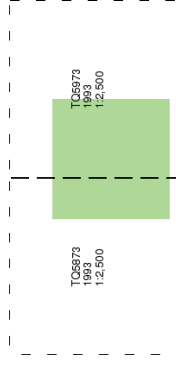
## Large-Scale National Grid Data

Published 1993

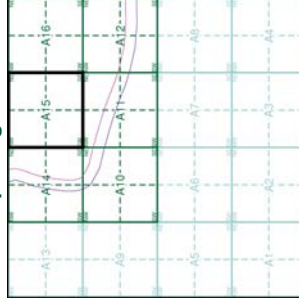
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive Information on Microfilm') in 1992, and continued to be produced until 1999. These maps are original topographical maps of Great Britain, and provide detailed information on the land, including details of buildings, roads, and other topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A15



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



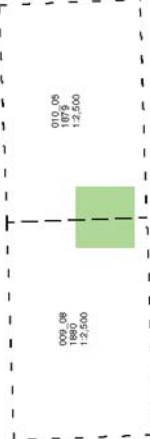


Published 1879 - 1880

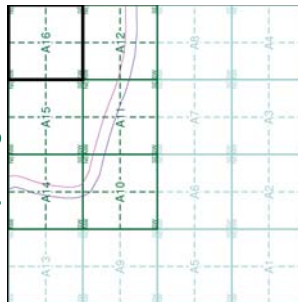
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's, in 1854 at the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A16



## Order Details

**Order Details**

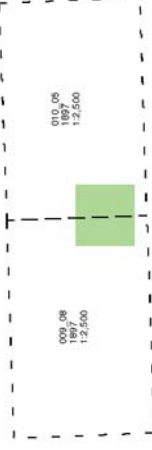
|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 558920, 172840 |
| Slice:                   | A              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

## Site Details

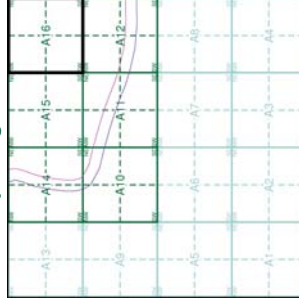
**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were first published and were based on the Ordnance Survey of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A16**

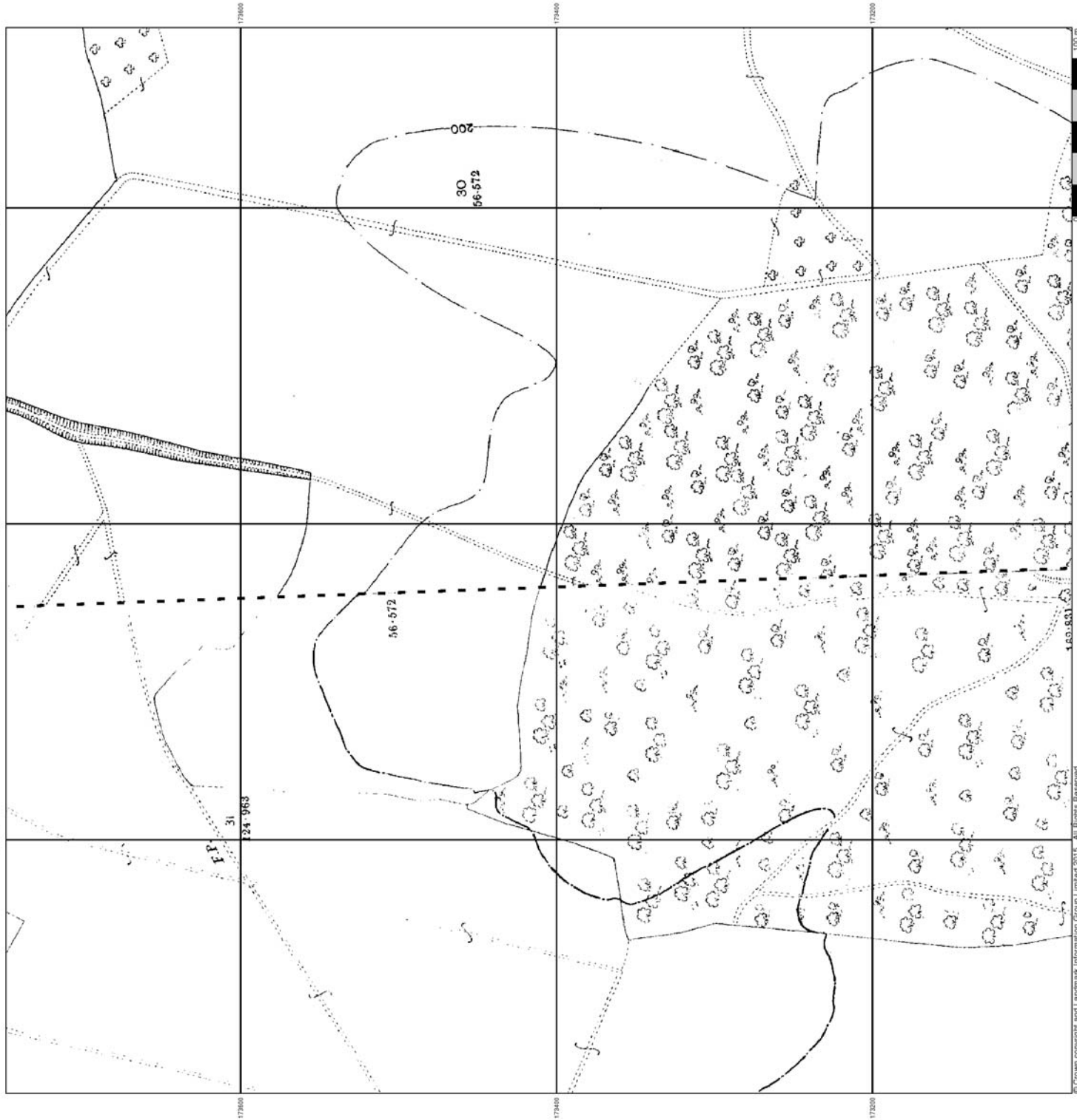


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

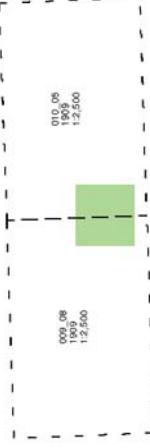
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



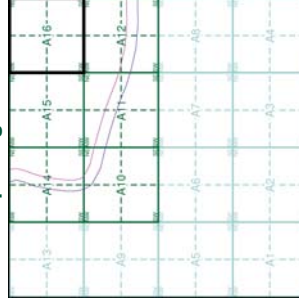


The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A16**

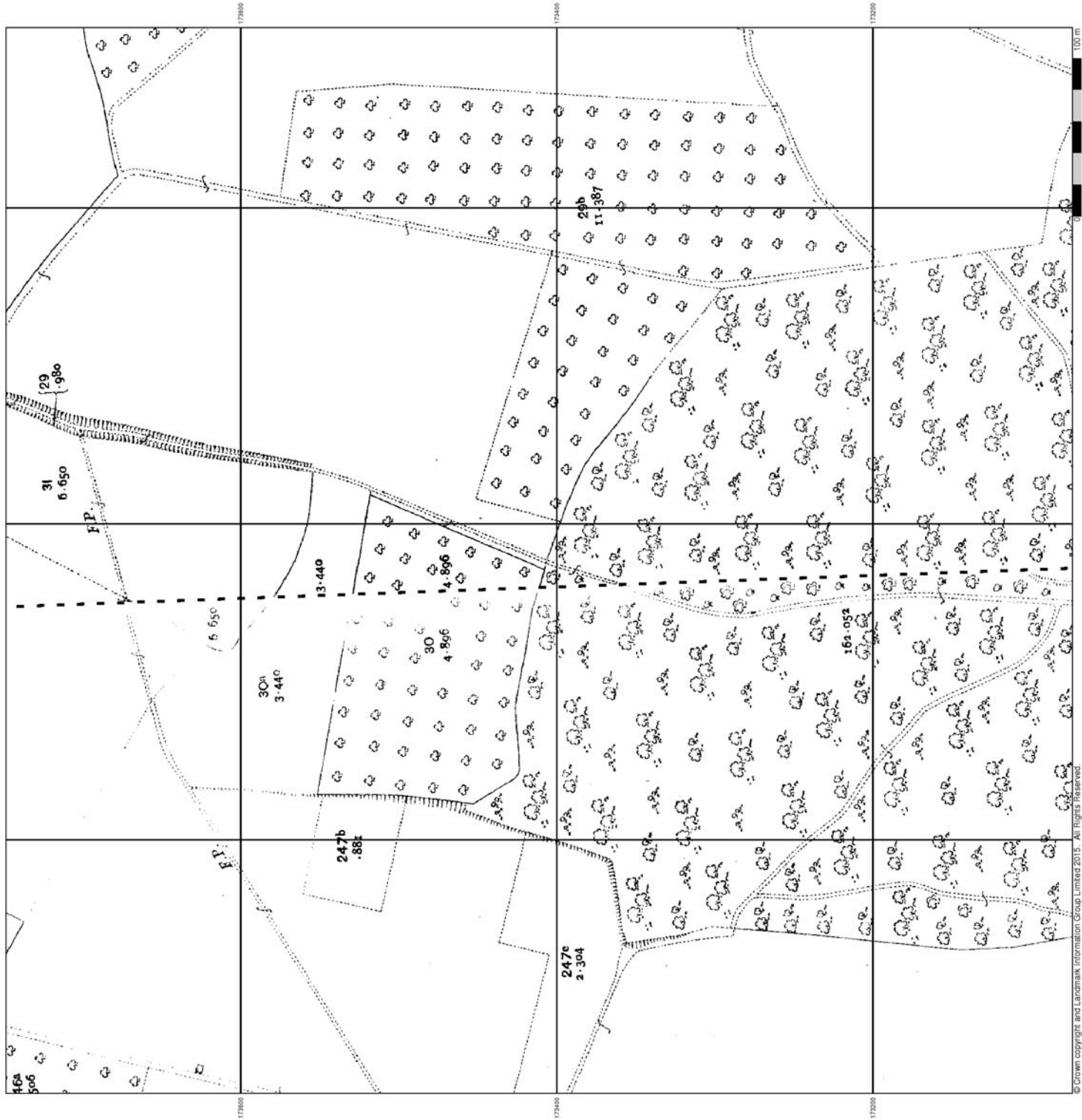


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

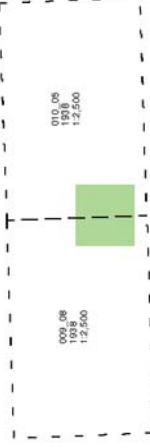
**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

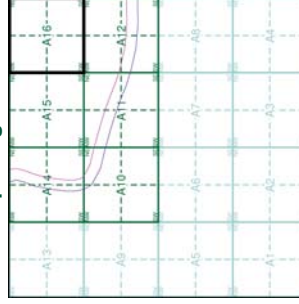


The historical maps shown were reproduced from maps predominantly held at 1:2,500 scale adopted for England, Wales and Scotland in the 1940s. 1864 the 1:2,500 scale maps were adopted for England and Wales. By 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A16**

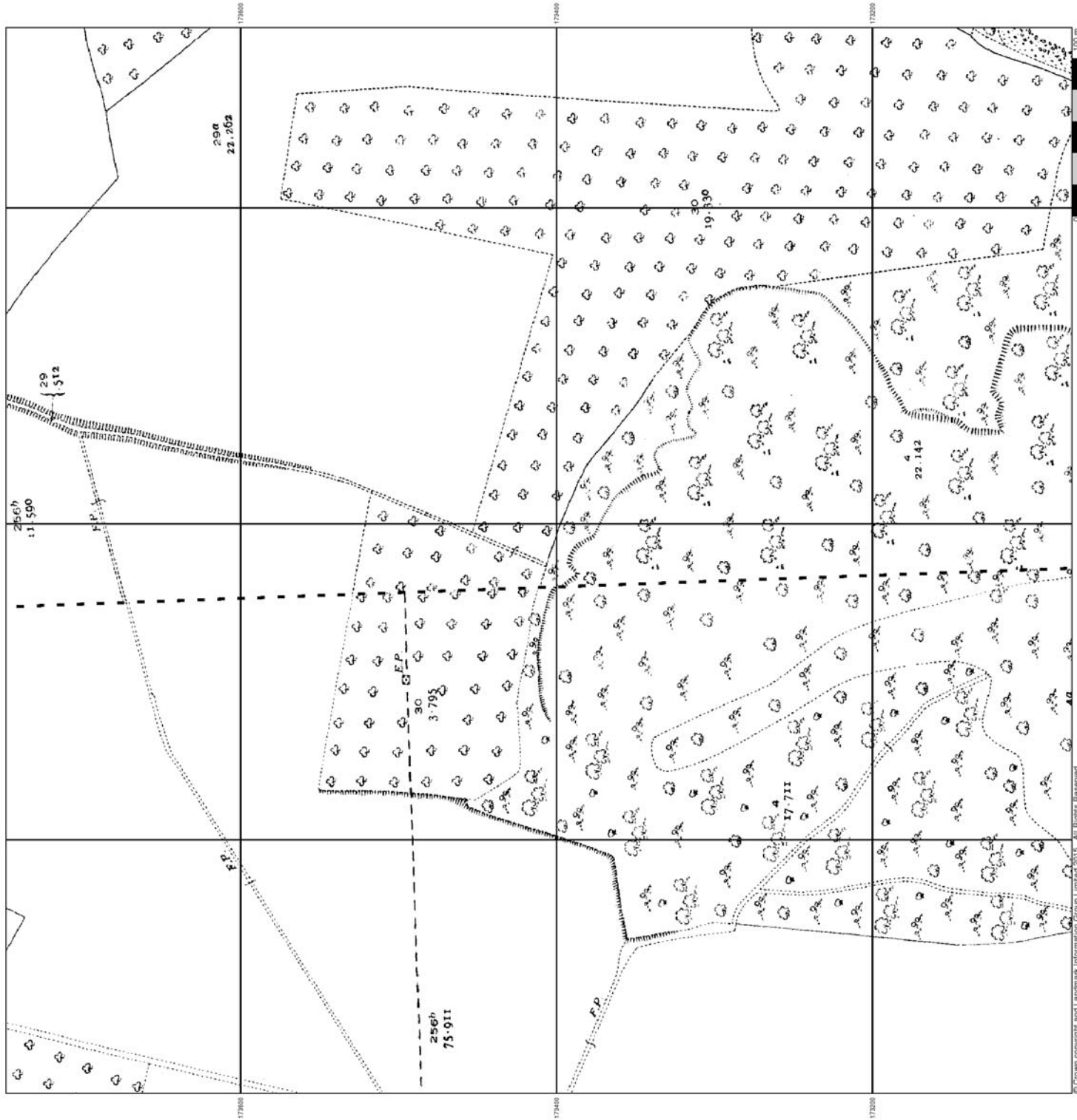


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





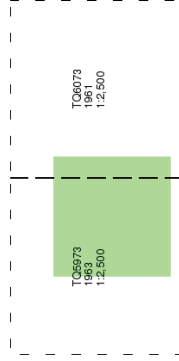
## Ordnance Survey Plan

Published 1961 - 1963

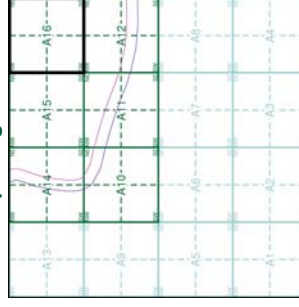
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were reproduced from the original maps by 1961. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A16

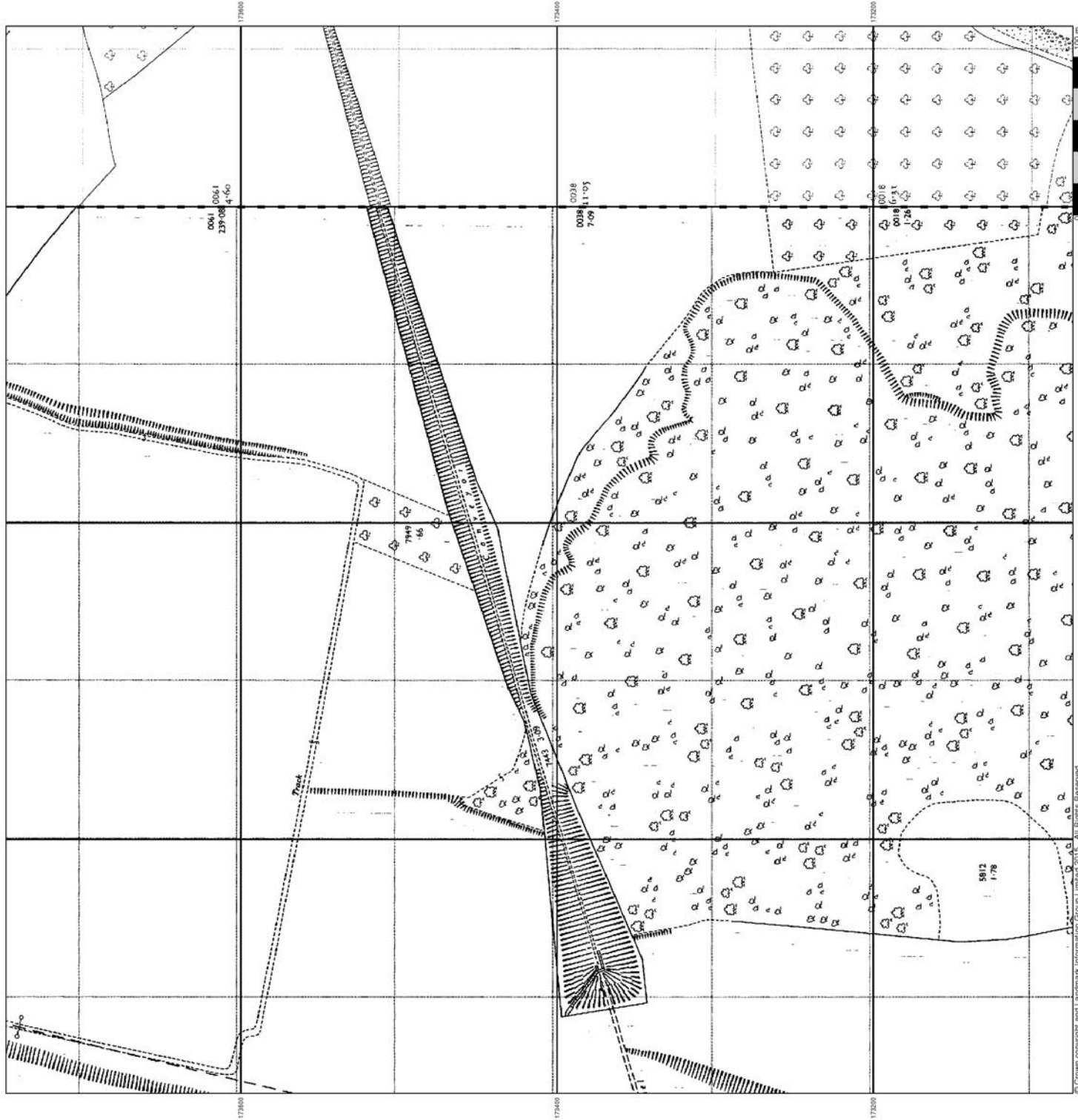


### Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

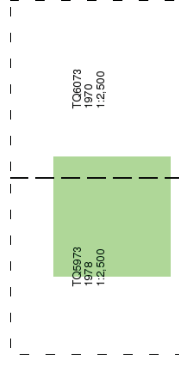
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



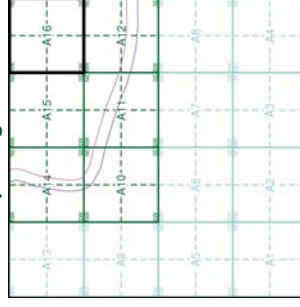
# Ordnance Survey Plan Published 1970 - 1978 Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were first published in 1854 and were revised by 1896. It is important to note that the maps were compiled to be the definitive parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A16

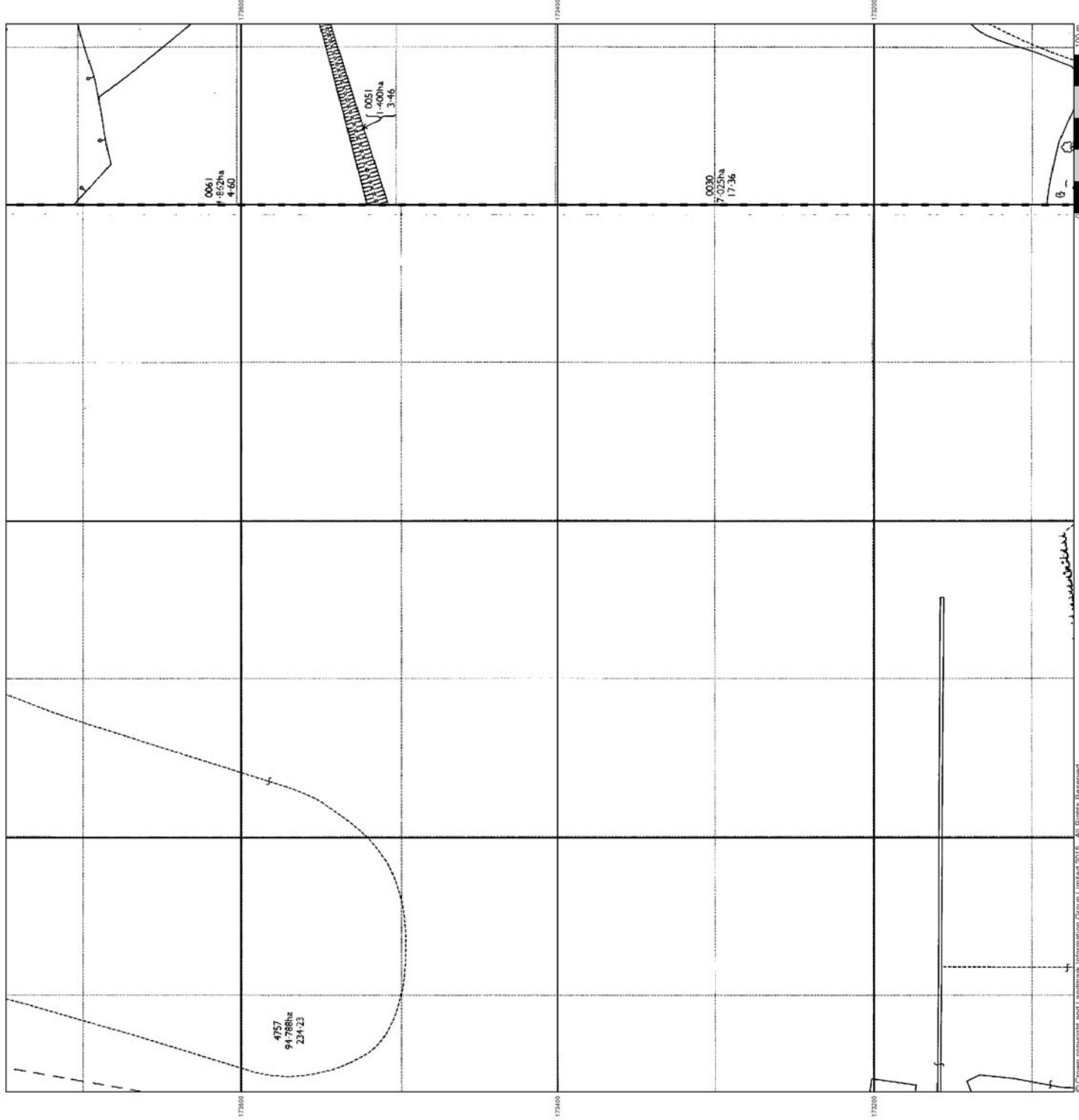


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



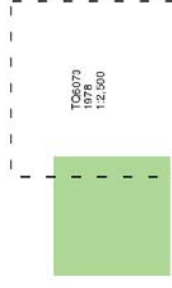




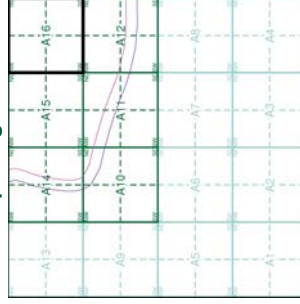
**Additional SIMs  
Published 1978  
Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced and published in 1947 before the current edition. The current edition was published in 1947 to 1994 and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A16**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



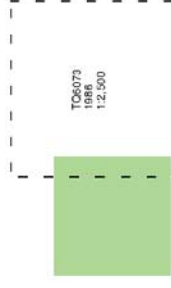
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



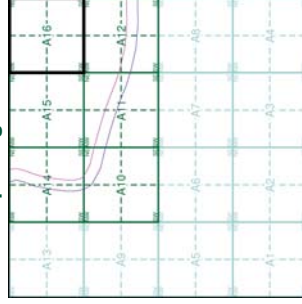
**Ordnance Survey Map  
Published 1986  
Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. 1854 the 1:2,500 scale maps were reproduced from the original maps by 1856. It covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A16**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





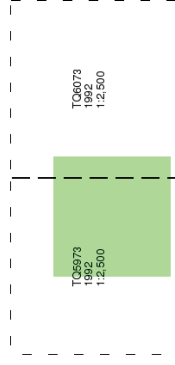
## Large-Scale National Grid Data

Published 1992

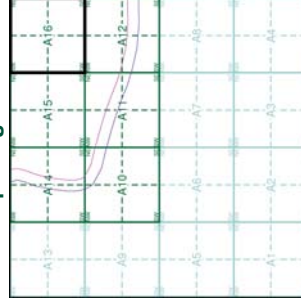
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive Information on Microfilm') in 1992, and continued to be produced until 1999. These maps are of digital mapping and provide detailed information on roads and buildings, but lack the topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A16



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9652  
Fax: 0844 844 9651  
Web: www.envirocheck.co.uk

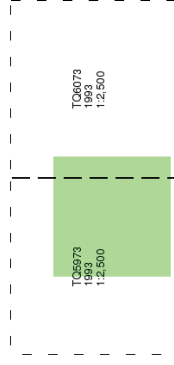
## Large-Scale National Grid Data

Published 1993

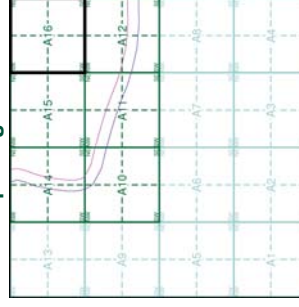
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive Information on Microfilm') in 1992, and continued to be produced until 1999. These maps are of digital mapping and provide detailed information on roads and other topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A16

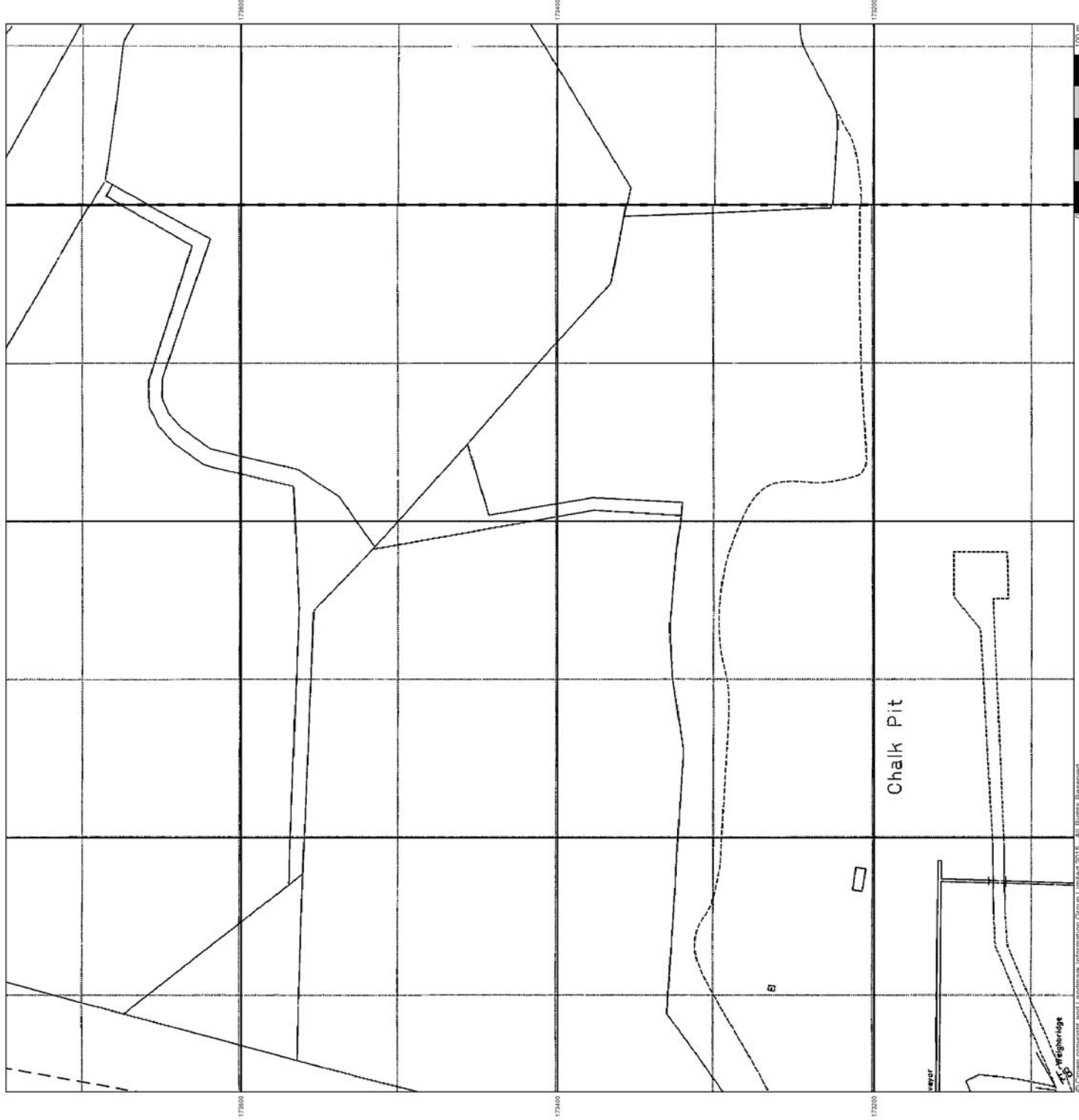


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



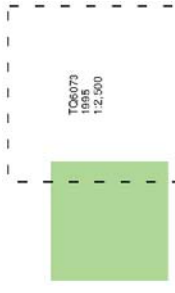




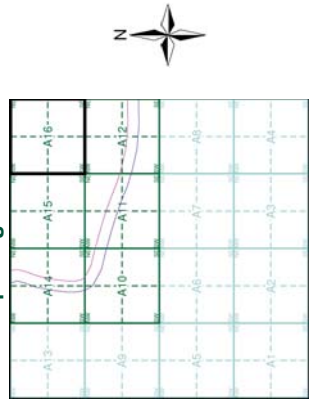
**Large-Scale National Grid Data  
Published 1995  
Source map scale - 1:2,500**

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survival Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were originally produced for the purpose of providing detailed information on the location and extent of built-up areas, topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A16**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 558920, 172840  
Slice: A  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

89304408\_1\_1

**Customer Reference:**

250122/00

**National Grid Reference:**

560950, 172840

**Slice:**

B

**Site Area (Ha):**

272.38

**Search Buffer (m):**

1000

#### Site Details:

Barton Wilmore, The Observatory  
Southfleet Road  
SWANSCOMBE  
Kent  
DA10 0DF

#### Client Details:

Mr P Measham  
Ove Arup & Partners International Ltd  
13 Fitzroy Street  
London  
W1T 4BQ

| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 19          |
| Hazardous Substances  | -           |
| Geological            | 20          |
| Industrial Land Use   | 28          |
| Sensitive Land Use    | 34          |
| Data Currency         | 35          |
| Data Suppliers        | 39          |
| Useful Contacts       | 40          |

## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

## Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

## Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

## Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact [mining.review@arup.com](mailto:mining.review@arup.com)). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

## Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

## Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

## Report Version v50.0



| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                             |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     | Yes       | Yes         | n/a                         |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                             |
| Discharge Consents                                            | pg 2        | 2       |           | 2           | 3                           |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                         |
| Enforcement and Prohibition Notices                           |             |         |           |             |                             |
| Integrated Pollution Controls                                 |             |         |           |             |                             |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                             |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                             |
| Local Authority Pollution Prevention and Controls             | pg 4        |         |           |             | 1                           |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                             |
| Nearest Surface Water Feature                                 | pg 4        | Yes     |           |             |                             |
| Pollution Incidents to Controlled Waters                      | pg 4        |         |           |             | 5                           |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                             |
| Registered Radioactive Substances                             |             |         |           |             |                             |
| River Quality                                                 |             |         |           |             |                             |
| River Quality Biology Sampling Points                         |             |         |           |             |                             |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                             |
| Substantiated Pollution Incident Register                     | pg 5        |         |           |             | 1                           |
| Water Abstractions                                            | pg 5        |         |           | 11          | 22 (*9)                     |
| Water Industry Act Referrals                                  |             |         |           |             |                             |
| Groundwater Vulnerability                                     | pg 16       | Yes     | n/a       | n/a         | n/a                         |
| Drift Deposits                                                |             |         | n/a       | n/a         | n/a                         |
| Bedrock Aquifer Designations                                  | pg 16       | Yes     | n/a       | n/a         | n/a                         |
| Superficial Aquifer Designations                              | pg 17       | Yes     | n/a       | n/a         | n/a                         |
| Source Protection Zones                                       | pg 17       | 3       | 1         | 5           | 3                           |
| Extreme Flooding from Rivers or Sea without Defences          |             |         |           | n/a         | n/a                         |
| Flooding from Rivers or Sea without Defences                  |             |         |           | n/a         | n/a                         |
| Areas Benefiting from Flood Defences                          |             |         |           | n/a         | n/a                         |
| Flood Water Storage Areas                                     |             |         |           | n/a         | n/a                         |
| Flood Defences                                                |             |         |           | n/a         | n/a                         |
| Detailed River Network Lines                                  |             |         |           |             | n/a                         |
| Detailed River Network Offline Drainage                       | pg 18       | Yes     |           | Yes         | n/a                         |

| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                             |
| BGS Recorded Landfill Sites                                         |             |         |           |             |                             |
| Historical Landfill Sites                                           | pg 19       |         | 1         |             |                             |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                             |
| Licensed Waste Management Facilities (Landfill Boundaries)          | pg 19       |         | 1         |             |                             |
| Licensed Waste Management Facilities (Locations)                    |             |         |           |             |                             |
| Local Authority Landfill Coverage                                   | pg 19       | 2       | n/a       | n/a         | n/a                         |
| Local Authority Recorded Landfill Sites                             |             |         |           |             |                             |
| Registered Landfill Sites                                           | pg 19       |         | 1         |             |                             |
| Registered Waste Transfer Sites                                     |             |         |           |             |                             |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                             |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                             |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                             |
| Explosive Sites                                                     |             |         |           |             |                             |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                             |
| Planning Hazardous Substance Consents                               |             |         |           |             |                             |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                             |
| <b>Geological</b>                                                   |             |         |           |             |                             |
| BGS 1:625,000 Solid Geology                                         | pg 20       | Yes     | n/a       | n/a         | n/a                         |
| BGS Recorded Mineral Sites                                          | pg 20       | 6       | 1         | 6           | 1                           |
| Brine Compensation Area                                             |             |         | n/a       | n/a         | n/a                         |
| Coal Mining Affected Areas                                          |             |         | n/a       | n/a         | n/a                         |
| Mining Instability                                                  | pg 22       | Yes     | n/a       | n/a         | n/a                         |
| Man-Made Mining Cavities                                            | pg 22       | 1       | 1         |             | 1                           |
| Natural Cavities                                                    | pg 23       |         |           | 1           |                             |
| Non Coal Mining Areas of Great Britain                              | pg 23       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Collapsible Ground Stability Hazards                  | pg 23       | Yes     |           | n/a         | n/a                         |
| Potential for Compressible Ground Stability Hazards                 | pg 23       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Ground Dissolution Stability Hazards                  | pg 24       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Landslide Ground Stability Hazards                    | pg 24       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Running Sand Ground Stability Hazards                 | pg 25       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 26       | Yes     |           | n/a         | n/a                         |
| Radon Potential - Radon Affected Areas                              | pg 27       | Yes     | n/a       | n/a         | n/a                         |
| Radon Potential - Radon Protection Measures                         |             |         | n/a       | n/a         | n/a                         |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                             |
| Contemporary Trade Directory Entries | pg 28       |         |           |             | 7                           |
| Fuel Station Entries                 | pg 28       |         |           |             | 2                           |
| Gas Pipelines                        |             |         |           |             |                             |
| Underground Electrical Cables        | pg 28       | 5       | 12        | 12          | 16                          |
| <b>Sensitive Land Use</b>            |             |         |           |             |                             |
| Ancient Woodland                     | pg 34       |         | 1         |             |                             |
| Areas of Adopted Green Belt          |             |         |           |             |                             |
| Areas of Unadopted Green Belt        | pg 34       |         | 1         |             |                             |
| Areas of Outstanding Natural Beauty  |             |         |           |             |                             |
| Environmentally Sensitive Areas      |             |         |           |             |                             |
| Forest Parks                         |             |         |           |             |                             |
| Local Nature Reserves                |             |         |           |             |                             |
| Marine Nature Reserves               |             |         |           |             |                             |
| National Nature Reserves             | pg 34       |         | 1         |             |                             |
| National Parks                       |             |         |           |             |                             |
| Nitrate Sensitive Areas              |             |         |           |             |                             |
| Nitrate Vulnerable Zones             | pg 34       | 1       |           |             |                             |
| Ramsar Sites                         |             |         |           |             |                             |
| Sites of Special Scientific Interest | pg 34       |         | 1         | 1           |                             |
| Special Areas of Conservation        |             |         |           |             |                             |
| Special Protection Areas             |             |         |           |             |                             |
| World Heritage Sites                 |             |         |           |             |                             |



| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (NW)                                   | 0                            | 1       | 559450<br>174300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | B9NE<br>(W)                            | 0                            | 1       | 560550<br>172900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | B9NW<br>(W)                            | 0                            | 1       | 560200<br>172838 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (NW)                                   | 0                            | 1       | 559450<br>174400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (NW)                                   | 0                            | 1       | 559500<br>174400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (W)                                    | 0                            | 1       | 559600<br>173050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (W)                                    | 0                            | 1       | 559750<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | B13SW<br>(W)                           | 0                            | 1       | 560200<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | B13SW<br>(NW)                          | 0                            | 1       | 560250<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | B9NW<br>(W)                            | 0                            | 1       | 560450<br>172800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (W)                                    | 0                            | 1       | 560000<br>172850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | B9NE<br>(W)                            | 0                            | 1       | 560550<br>172838 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | B13SW<br>(NW)                          | 0                            | 1       | 560300<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | B13SW<br>(NW)                          | 0                            | 1       | 560450<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (W)                                    | 0                            | 1       | 559550<br>173000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | B9NE<br>(W)                            | 0                            | 1       | 560500<br>173000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (NW)                                   | 0                            | 1       | 559500<br>174350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (W)                                    | 0                            | 1       | 559750<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (W)                                    | 0                            | 1       | 559700<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (W)                                    | 0                            | 1       | 559700<br>173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (W)                                    | 0                            | 1       | 559700<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (W)                                    | 0                            | 1       | 559750<br>173200 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (W)                                    | 0                            | 1       | 559800<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (W)                                    | 0                            | 1       | 559850<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | B13SW (NW)                             | 0                            | 1       | 560350<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (W)                                    | 0                            | 1       | 560000<br>172838 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | B10NW (N)                              | 0                            | 1       | 560954<br>172838 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (W)                                    | 234                          | 1       | 559900<br>172450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | B14SE (NE)                             | 296                          | 1       | 561300<br>173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (W)                                    | 303                          | 1       | 559650<br>172400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | B14SE (NE)                             | 333                          | 1       | 561400<br>173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (SW)                                   | 335                          | 1       | 560000<br>172350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | B11NW (E)                              | 351                          | 1       | 561500<br>172950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | B14SE (NE)                             | 367                          | 1       | 561450<br>173350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (NE)                                   | 423                          | 1       | 561400<br>173850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (N)                                    | 443                          | 1       | 561350<br>174050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | B15SW (NE)                             | 491                          | 1       | 561550<br>173100 |
| 1      | <b>Discharge Consents</b><br>Operator: Land Securities<br>Property Type: Domestic Property (Single)<br>Location: Land East Of Cherry Orchard, Eastern Quarry, Watling Street, Swanscombe, Kent<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Darent (NIRS)<br>Reference: P20413<br>Permit Version: 2<br>Effective Date: 21st December 2012<br>Issued Date: 21st December 2012<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Underground Water<br>Environment:<br>Receiving Water: Underground Strata<br><b>Status: Varied under EPR 2010</b><br>Positional Accuracy: Located by supplier to within 10m | B13SE (NW)                             | 0                            | 2       | 560558<br>173282 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 1      | <b>Discharge Consents</b><br>Operator: Land Securities<br>Property Type: Domestic Property (Single)<br>Location: Land East Of Cherry Orchard, Eastern Quarry, Watling Street, Swanscombe, Kent<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Darent (NIRS)<br>Reference: P20413<br>Permit Version: 1<br>Effective Date: 20th December 2004<br>Issued Date: 20th December 2004<br>Revocation Date: 20th December 2012<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Underground Water<br>Environment:<br>Receiving Water: Underground Strata<br><b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m | B13SE (NW)                             | 0                            | 2       | 560558 173282 |
| 2      | <b>Discharge Consents</b><br>Operator: Thames Water Utilities Ltd<br>Property Type: Water Treatment Works<br>Location: Southfleet Water Treatment Works, Southfleet<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P05586<br>Permit Version: 2<br>Effective Date: 1st January 2010<br>Issued Date: 25th September 2009<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw)<br>Discharge: Into Land<br>Environment:<br>Receiving Water: Into Land<br><b>Status:</b> <b>Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                      | B10SW (S)                              | 365                          | 2       | 560940 172480 |
| 2      | <b>Discharge Consents</b><br>Operator: Thames Water Utilities Ltd<br>Property Type: Water Treatment Works<br>Location: Southfleet Water Treatment Works, Southfleet<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P05586<br>Permit Version: 1<br>Effective Date: 15th February 1995<br>Issued Date: 15th February 1995<br>Revocation Date: 31st December 2009<br>Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw)<br>Discharge: Into Land<br>Environment:<br>Receiving Water: Into Land<br><b>Status:</b> <b>Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                 | B10SW (S)                              | 365                          | 2       | 560940 172480 |
| 3      | <b>Discharge Consents</b><br>Operator: Lafarge Cement Uk Plc<br>Property Type: Industrial Waste Landfills<br>Location: Bakers Hole Landfill, Northfleet, Kent<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Darent (NIRS)<br>Reference: P09808<br>Permit Version: 2<br>Effective Date: 5th September 2003<br>Issued Date: 5th September 2003<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent Discharge-Site Drainage<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Ebbfleet<br><b>Status:</b> <b>Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                                 | B15SW (NE)                             | 518                          | 2       | 561560 173250 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 4      | <b>Discharge Consents</b><br>Operator: Southern Water Services Ltd (K)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Northfleet Sewage Treatment Work, Northfleet, Kent, Da11 8hl<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: K02067<br>Permit Version: 2<br>Effective Date: 31st March 2010<br>Issued Date: 31st March 2010<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tributary Of River Ebbsfleet<br><b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m | B15NE (NE)                             | 978                          | 2       | 562060 173500 |
| 4      | <b>Discharge Consents</b><br>Operator: Southern Water Services Ltd (K)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Northfleet Sewage Treatment Work, Northfleet, Kent, Da11 8hl<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: K02067<br>Permit Version: 1<br>Effective Date: 15th November 1973<br>Issued Date: 15th November 1973<br>Revocation Date: 30th March 2010<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Freshwater River<br><b>Status:</b> <b>Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b><br>Positional Accuracy: Located by supplier to within 100m               | B15NE (NE)                             | 978                          | 2       | 562060 173500 |
| 5      | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Springhead Service Station<br>Location: Station Road, Watling Street, A2 Southbound, SOUTHFLEET, Kent, DA11 8AA<br>Authority: Dartford Borough Council, Environmental Health Department<br>Permit Reference: B/29/01/rev1<br>Dated: 14th April 1999<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/14 Petrol filling station<br><b>Status:</b> <b>Authorisation revokedRevoked</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                               | B11SW (E)                              | 831                          | 3       | 561480 172721 |
|        | <b>Nearest Surface Water Feature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B9NE (W)                               | 0                            | -       | 560537 172860 |
| 6      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Other Transport<br>Location: Northfleet Lorry Park A2, NORTHFLEET<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Other Oil<br>Note: Oil Spillage; Road (Road Traffic Accident)<br>Incident Date: 15th June 1994<br>Incident Reference: 94T198<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                                                                                                                                                                                    | B10SE (E)                              | 693                          | 2       | 561340 172720 |
| 7      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Petrol/Fuelling Stations<br>Location: Springhead Service Station<br>Authority: Environment Agency, Southern Region<br>Pollutant: Miscellaneous - Fire water / Foam<br>Note: Lorry Crashed Into Petrol Filling Station<br>Incident Date: 26th October 1996<br>Incident Reference: 396500<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                                                                                                                                                                                | B11SW (E)                              | 853                          | 2       | 561500 172700 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 8      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Agricultural<br>Location: Wingfield Bank Farm, NORTHFLEET<br>Authority: Environment Agency, Southern Region<br>Pollutant: Organic Chemicals : Red Gas Oil<br>Note: Not Supplied<br>Incident Date: 4th May 1999<br>Incident Reference: 2356<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Containment Failure : Overfilling / Delivery<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m                                                                                                                                          | B11NE (E)                              | 933                          | 2       | 561900<br>173000 |
| 9      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Other Transport<br>Location: Springhead Nurseries<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Oil On The Ebbs Fleet; Road (Road Traffic Accident)<br>Incident Date: 3rd May 1995<br>Incident Reference: 395085<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                                                                                        | B11SW (E)                              | 942                          | 2       | 561650<br>172700 |
| 9      | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Other Transport<br>Location: Springhead Nursery<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Tars/Bitumen<br>Note: Oil On Stream Ebbs Fleet; Road (Road Traffic Accident)<br>Incident Date: 18th May 1995<br>Incident Reference: 395197<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                                                                                                         | B11SW (E)                              | 972                          | 2       | 561700<br>172700 |
| 10     | <b>Substantiated Pollution Incident Register</b><br>Authority: Environment Agency - Southern Region, Kent and East Sussex<br>Incident Date: 27th October 2004<br>Incident Reference: 274486<br>Water Impact: Category 1 - Major Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Oils And Fuel: Mixed/Waste Oils                                                                                                                                                                                                                                                        | B6NW (S)                               | 580                          | 2       | 561005<br>172241 |
| 11     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 9/40/01/0128/Gr<br>Permit Version: 100<br>Location: Wells And Adits At Southfleet Ps, Southfleet<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from any point within an area<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: N/A<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 17th June 1994<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B10SW (S)                              | 321                          | 2       | 560900<br>172500 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 12     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 9/40/01/0128/Gr<br>Permit Version: 102<br>Location: Borehole 1 At Southfleet Pumping Station<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: N/A<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 22nd November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B10SW (S)                              | 395                          | 2       | 560982 172489 |
| 12     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 9/40/01/0128/Gr<br>Permit Version: 101<br>Location: Borehole 1 At Southfleet Pumping Station<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: N/A<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 29th October 2001<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | B10SW (S)                              | 395                          | 2       | 560982 172489 |
| 12     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 9/40/01/0128/Gr<br>Permit Version: 102<br>Location: Well 1 At Southfleet Pumping Station<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: N/A<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 22nd November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m     | B10SW (S)                              | 425                          | 2       | 560995 172453 |
| 12     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 9/40/01/0128/Gr<br>Permit Version: 101<br>Location: Well 1 At Southfleet Pumping Station<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: N/A<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 29th October 2001<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m      | B10SW (S)                              | 425                          | 2       | 560995 172453 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/152<br>Permit Version: 1<br>Location: Point B, Borehole At Southfleet, Kent<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: No Land (Public Water Supply)<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 7th July 2002<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m           | B10NE (NE)                             | 403                          | 2       | 561161 173057 |
| 13     | <b>Water Abstractions</b><br>Operator: Empire Paper Limited<br>Licence Number: 9/40/01/0088/B/Gr<br>Permit Version: 100<br>Location: Point 1, Well Nr. New Barn In Swanscombe, Kent.<br>Authority: Environment Agency, Southern Region<br>Abstraction: Paper And Printing: Process Water<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Shown Coloured Red On Licence Map.<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 30th July 1993<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B10NE (NE)                             | 405                          | 2       | 561130 173050 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Borehole Point F, (Epm) Southfleet (Borehole & Two Audits)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | B10NE (NE)                             | 409                          | 2       | 561160 173050 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Borehole Point F, (Epm) Southfleet (Borehole & Two Audits)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B10NE (NE)                             | 409                          | 2       | 561160 173050 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 2<br>Location: Borehole Point F, (Epm) Southfleet (Borehole & Two Audits)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m   | B10NE (NE)                             | 409                          | 2       | 561160 173050 |
| 13     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 1<br>Location: Borehole Point F, (Epm) Southfleet (Borehole & Two Audits)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st October 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B10NE (NE)                             | 409                          | 2       | 561160 173050 |
| 14     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: So/040/0037/006<br>Permit Version: 1<br>Location: Point I Sandy Lane At Betsham<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 23rd June 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                              | B5NW (SW)                              | 567                          | 2       | 560130 172120 |
| 14     | <b>Water Abstractions</b><br>Operator: Thames Water Utilities Ltd<br>Licence Number: 01/156<br>Permit Version: 3<br>Location: Point I Sandy Lane At Betsham<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Applicable<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                             | B5NW (SW)                              | 567                          | 2       | 560130 172120 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 15     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G/R01<br>Permit Version: 1<br>Location: Point B, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: General Washing/Process Washing<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Springhead Nurseries, Gravesend<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m        | B11NW (E)                              | 862                          | 2       | 561660 172811 |
| 15     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G/R01<br>Permit Version: 1<br>Location: Point B, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Springhead Nurseries, Gravesend<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m              | B11NW (E)                              | 862                          | 2       | 561660 172811 |
| 15     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 101<br>Location: Point B, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: General Washing/Process Washing<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B11NW (E)                              | 863                          | 2       | 561660 172810 |
| 15     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 101<br>Location: Point B, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m       | B11NW (E)                              | 863                          | 2       | 561660 172810 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 15     | <b>Water Abstractions</b><br>Operator: D.T.G. Elliott & Son Ltd.<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 100<br>Location: Point B, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: General Washing/Process Washing<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): 455<br>Yearly Rate (m3): 4136.9<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 15th May 1978<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m          | B11NW (E)                              | 863                          | 2       | 561660 172810 |
| 15     | <b>Water Abstractions</b><br>Operator: D.T.G. Elliott & Son Ltd.<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 100<br>Location: Point B, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 15th May 1978<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B11NW (E)                              | 863                          | 2       | 561660 172810 |
| 16     | <b>Water Abstractions</b><br>Operator: D T G Elliot & Son Ltd<br>Licence Number: 1/0504/A/G<br>Permit Version: Not Supplied<br>Location: Springhead Nurseries, SOUTHFLEET<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture (General)<br>Abstraction Type: Not Supplied<br>Source: Pond or Lake<br>Daily Rate (m3): 455<br>Yearly Rate (m3): 4137<br>Details: Additional Purpose: Spray Irrigation<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                       | B11NW (E)                              | 913                          | 2       | 561685 172765 |
| 16     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G/R01<br>Permit Version: 1<br>Location: Point A, Borehole, H5 Chalk, Southfleet<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Springhead Nurseries, Gravesend<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m      | B11SW (E)                              | 940                          | 2       | 561660 172710 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 16     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G/R01<br>Permit Version: 1<br>Location: Point A, Borehole, H5 Chalk, Southfleet<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: General Washing/Process Washing<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Springhead Nurseries, Gravesend<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m        | B11SW (E)                              | 940                          | 2       | 561660 172710 |
| 16     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 101<br>Location: Point A, Borehole, H5 Chalk, Southfleet<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: General Washing/Process Washing<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B11SW (E)                              | 940                          | 2       | 561660 172710 |
| 16     | <b>Water Abstractions</b><br>Operator: D T G Elliott & Son Ltd<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 101<br>Location: Point A, Borehole, H5 Chalk, Southfleet<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m       | B11SW (E)                              | 940                          | 2       | 561660 172710 |
| 16     | <b>Water Abstractions</b><br>Operator: D.T.G. Elliott & Son Ltd.<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 100<br>Location: Point A, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 15th May 1978<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m         | B11SW (E)                              | 957                          | 2       | 561700 172720 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 16     | <b>Water Abstractions</b><br>Operator: D.T.G. Elliott & Son Ltd.<br>Licence Number: 9/40/01/0504/G<br>Permit Version: 100<br>Location: Point A, Borehole, H5 Chalk, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: General Washing/Process Washing<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): 455<br>Yearly Rate (m3): 4137<br>Details: As Outlined Red On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 15th May 1978<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m               | B11SW (E)                              | 957                          | 2       | 561700 172720 |
| 17     | <b>Water Abstractions</b><br>Operator: Ebbsfleet Investment (Gp) Limited<br>Licence Number: 01/0157<br>Permit Version: 2<br>Location: Point A, Wingfield Park Farm In Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldy Out Lined On Licence Map<br>Authorised Start: 01 March<br>Authorised End: 31 October<br>Permit Start Date: 18th July 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | B11NE (E)                              | 933                          | 2       | 561900 173000 |
| 17     | <b>Water Abstractions</b><br>Operator: Land Securities Trading Ltd<br>Licence Number: 01/0157<br>Permit Version: 1<br>Location: Point A, Wingfield Park Farm In Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldy Out Lined On Licence Map<br>Authorised Start: 01 March<br>Authorised End: 31 October<br>Permit Start Date: 17th October 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m    | B11NE (E)                              | 933                          | 2       | 561900 173000 |
| 17     | <b>Water Abstractions</b><br>Operator: Beslee Farms<br>Licence Number: 9/40/01/0523/G<br>Permit Version: 100<br>Location: Point A, Wingfield Park Farm In Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 March<br>Authorised End: 31 October<br>Permit Start Date: 12th March 1996<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m            | B11NE (E)                              | 933                          | 2       | 561900 173000 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 17     | <b>Water Abstractions</b><br>Operator: John Arthur Beslee & Penelope Gaye Beslee<br>Licence Number: 1/0523/B/G<br>Permit Version: Not Supplied<br>Location: SOUTHFLEET<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture (General)<br>Abstraction Type: Not Supplied<br>Source: Pond or Lake<br>Daily Rate (m3): 682<br>Yearly Rate (m3): 27270<br>Details: Additional Purpose: Spray Irrigation<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                          | B11NE (E)                              | 953                          | 2       | 561920 172995 |
| 18     | <b>Water Abstractions</b><br>Operator: John Arthur Beslee & Penelope Gaye Beslee<br>Licence Number: 1/0523/A/G<br>Permit Version: Not Supplied<br>Location: SOUTHFLEET<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply<br>Abstraction Type: Not Supplied<br>Source: Pond or Lake<br>Daily Rate (m3): 900<br>Yearly Rate (m3): 36360<br>Details: Additional Purpose: Spray Irrigation<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                            | B6SE (SE)                              | 951                          | 2       | 561320 172025 |
| 18     | <b>Water Abstractions</b><br>Operator: Beslee Farms<br>Licence Number: 9/40/01/0523/G<br>Permit Version: 101<br>Location: Point C, Borehole, Joyce Hall Farm In Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 March<br>Authorised End: 31 October<br>Permit Start Date: 27th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B6SE (SE)                              | 962                          | 2       | 561310 172000 |
| 18     | <b>Water Abstractions</b><br>Operator: Beslee Farms<br>Licence Number: 9/40/01/0523/G<br>Permit Version: 100<br>Location: Point C, Borehole, Joyce Hall Farm In Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 March<br>Authorised End: 31 October<br>Permit Start Date: 12th March 1996<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m    | B6SE (SE)                              | 962                          | 2       | 561310 172000 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Water Abstractions</b><br>Operator: Berendsen Uk Limited<br>Licence Number: 01/154<br>Permit Version: 5<br>Location: Point A, Borehole At Springhead Enterprise Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Industrial; Commercial And Public Services: Laundry Use<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Springhead Enterprise Park, Gravesend<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 5th December 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m         | B16NW (NE)                             | 1147                         | 2       | 562230 173450 |
|        | <b>Water Abstractions</b><br>Operator: Berendsen Uk Limited<br>Licence Number: 01/154<br>Permit Version: 4<br>Location: Point A, Borehole At Springhead Enterprise Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Industrial; Commercial And Public Services: Laundry Use<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Boldly On Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 22nd July 2013<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m           | B16NW (NE)                             | 1147                         | 2       | 562230 173450 |
|        | <b>Water Abstractions</b><br>Operator: The Sunlight Service Group Ltd<br>Licence Number: 01/154<br>Permit Version: 2<br>Location: Point A, Borehole At Springhead Enterprise Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Industrial; Commercial And Public Services: Laundry Use<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Boldly On Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 9th March 2007<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B16NW (NE)                             | 1147                         | 2       | 562230 173450 |
|        | <b>Water Abstractions</b><br>Operator: Shaws Laundries Ltd<br>Licence Number: 01/154<br>Permit Version: 1<br>Location: Point A, Borehole At Springhead Enterprise Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Industrial; Commercial And Public Services: Laundry Use<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Outlined Boldly On Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 3rd May 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m              | B16NW (NE)                             | 1147                         | 2       | 562230 173450 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Water Abstractions</b><br>Operator: Shaws Laundries Ltd<br>Licence Number: 01/144<br>Permit Version: 1<br>Location: Point A, Borehole At Springhead Enterprise Park<br>Authority: Environment Agency, Southern Region<br>Abstraction: Industrial; Commercial And Public Services: Laundry Use<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 28th July 2000<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m               | B16NW (NE)                             | 1147                         | 2       | 562230 173450 |
|        | <b>Water Abstractions</b><br>Operator: Kimberly-Clark Limited<br>Licence Number: 9/40/01/0092/B/Gr<br>Permit Version: 100<br>Location: Borehole 1, H5 Chalk, Northfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: Paper And Printing: Process Water<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Shown Coloured Blue On Licence Map.<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 1st July 1996<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                      | B16NW (NE)                             | 1343                         | 2       | 562410 173660 |
|        | <b>Water Abstractions</b><br>Operator: D & M Gedney Ltd<br>Licence Number: 9/40/01/0500/G<br>Permit Version: 100<br>Location: Point A, Borehole, Nr. Court Lodge Farm, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agricultural Vegetable Wash<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 23rd November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                  | B2NE (S)                               | 1355                         | 2       | 561240 171480 |
|        | <b>Water Abstractions</b><br>Operator: D & M Gedney Ltd<br>Licence Number: 9/40/01/0500/G<br>Permit Version: 100<br>Location: Point A, Borehole, Nr. Court Lodge Farm, Southfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On Licence Map.<br>Authorised Start: 01 April<br>Authorised End: 30 November<br>Permit Start Date: 23rd November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B2NE (S)                               | 1355                         | 2       | 561240 171480 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Water Abstractions</b><br>Operator: Kimberly-Clark Limited<br>Licence Number: 9/40/01/0092/B/Gr<br>Permit Version: 100<br>Location: Borehole 2, H5 Chalk, Northfleet.<br>Authority: Environment Agency, Southern Region<br>Abstraction: Paper And Printing: Process Water<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): 19656<br>Yearly Rate (m3): 4710000<br>Details: As Shown Coloured Blue On Licence Map.<br>Authorised Start: 01 October<br>Authorised End: 30 September<br>Permit Start Date: 1st July 1996<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | B16NW (NE)                             | 1382                         | 2       | 562450<br>173660 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Not classified<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (NW)                                   | 0                            | 2       | 559594<br>173486 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                               | B10NW (N)                              | 0                            | 2       | 560954<br>172838 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                         | B10NE (E)                              | 0                            | 2       | 561237<br>172902 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                               | B9NE (W)                               | 0                            | 2       | 560590<br>172870 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                         | B13NE (NW)                             | 0                            | 2       | 560490<br>173671 |
|        | <b>Drift Deposits</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |                              |         |                  |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (W)                                    | 0                            | 1       | 560000<br>172838 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B10NE (E)                              | 0                            | 1       | 561243<br>172928 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B9NE (W)                               | 0                            | 1       | 560610<br>172796 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (NW)                                   | 0                            | 1       | 560000<br>173728 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (W)                                    | 0                            | 1       | 560000<br>172828 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | B10NW (N)                              | 0                            | 1       | 560954<br>172838 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Unproductive Strata                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (W)                                    | 0                            | 1       | 560000<br>172772 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Unproductive Strata                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | B9NW (W)                               | 0                            | 1       | 560293<br>172750 |

| Map ID | Details                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | B10SW (SW)                             | 0                            | 1       | 560820 172667 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | B10NW (N)                              | 0                            | 1       | 560985 172933 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | (W)                                    | 0                            | 1       | 559634 172602 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | B13NE (N)                              | 0                            | 1       | 560728 173607 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                             | (NW)                                   | 0                            | 1       | 559979 173821 |
| 19     | <b>Source Protection Zones</b><br>Name: Swanscombe<br>Source: Environment Agency, Head Office<br>Reference: Su166<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.                             | (W)                                    | 0                            | 2       | 559580 173046 |
| 20     | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.     | B10NW (N)                              | 0                            | 2       | 560954 172838 |
| 21     | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source. | B10NW (N)                              | 0                            | 2       | 560954 172838 |
| 22     | <b>Source Protection Zones</b><br>Name: Borehole Point F, (Epm) Southfleet<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.     | B10NW (NE)                             | 85                           | 2       | 560957 172840 |
| 23     | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.                         | B5NW (SW)                              | 312                          | 2       | 560396 172233 |
| 24     | <b>Source Protection Zones</b><br>Name: Southfleet<br>Source: Environment Agency, Head Office<br>Reference: Su014<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.                             | B10SW (S)                              | 366                          | 2       | 561045 172547 |
| 25     | <b>Source Protection Zones</b><br>Name: Borehole Point F, (Epm) Southfleet<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source                                                                            | B10NE (NE)                             | 409                          | 2       | 561160 173050 |
| 26     | <b>Source Protection Zones</b><br>Name: Southfleet<br>Source: Environment Agency, Head Office<br>Reference: Su014<br>Type: Groundwater Source                                                                                                    | B10SW (S)                              | 415                          | 2       | 560980 172450 |
| 27     | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.                         | B15SW (NE)                             | 459                          | 2       | 561719 173206 |

| Map ID | Details                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 28     | <b>Source Protection Zones</b><br>Name: Point I Sandy Lane At Betsham<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source          | B5NW (SW)                              | 567                          | 2       | 560130 172120 |
| 29     | <b>Source Protection Zones</b><br>Name: Borehole Point C, Middle Drudgeon Farm<br>Source: Environment Agency, Head Office<br>Reference: Su460<br>Type: Groundwater Source | (SW)                                   | 660                          | 2       | 559430 172080 |
| 30     | <b>Source Protection Zones</b><br>Name: Portland Pitlake Quarry<br>Source: Environment Agency, Head Office<br>Reference: Su163<br>Type: Groundwater Source                | (NE)                                   | 896                          | 2       | 561910 173810 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>None                                                                                                       |                                        |                              |         |               |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>None                                                                                                               |                                        |                              |         |               |
|        | <b>Areas Benefiting from Flood Defences</b><br>None                                                                                                                       |                                        |                              |         |               |
|        | <b>Flood Water Storage Areas</b><br>None                                                                                                                                  |                                        |                              |         |               |
|        | <b>Flood Defences</b><br>None                                                                                                                                             |                                        |                              |         |               |
|        | <b>Detailed River Network Lines</b><br>None                                                                                                                               |                                        |                              |         |               |
| 31     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                  | B9NE (W)                               | 0                            | 2       | 560454 172779 |
| 32     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                  | B9NW (W)                               | 0                            | 2       | 560321 172950 |
| 33     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                  | B9NW (W)                               | 0                            | 2       | 560295 172922 |
| 34     | <b>Detailed River Network Offline Drainage</b><br>River Type: Secondary River<br>Hydrographic Area: D006                                                                  | B9NW (W)                               | 0                            | 2       | 560299 172838 |
| 35     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D006                                                                   | B10NW (S)                              | 318                          | 2       | 560984 172746 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 36     | <b>Historical Landfill Sites</b><br>Licence Holder: Blue Circle Industries Plc<br>Location: Southfleet<br>Name: Southfleet Pit<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD19844<br>First Input Date: Not Supplied<br>Last Input Date: Not Supplied<br>Specified Waste: Deposited Waste included Inert Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: Not Supplied<br>BGS Ref: Not Supplied<br>Other Ref: GR19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | B14NW (N)                              | 8                            | 2       | 561112 173541 |
| 37     | <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Name: Northfleet Landfill<br>Licence Number: 19375<br>Location: Northfleet Landfill, Bakers Hole, Northfleet, Kent, DA11 8HF<br>Licence Holder: Tarmac Cement And Lime Limited<br>Authority: Environment Agency - South East Region, Kent & South London Area<br>Site Category: Household, Commercial And Industrial Waste Landfills<br>Max Input Rate: Not Supplied<br><b>Licence Status: Modified</b><br>Issued: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Accuracy: As Supplied                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B14NW (N)                              | 22                           | 2       | 561036 173700 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Dartford Borough Council<br>- Has no landfill data to supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        | 0                            | 3       | 560954 172838 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Kent County Council<br>- Had landfill data but passed it to the relevant environment agency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        | 0                            | 4       | 560954 172838 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Gravesham Borough Council<br>- Has no landfill data to supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        | 555                          | 5       | 561626 172913 |
| 38     | <b>Registered Landfill Sites</b><br>Licence Holder: Blue Circle Landfill Division<br>Licence Reference: P/01/36<br>Site Location: Northfleet Landfill Extension, East Of Southfleet Road, Swanscombe, Kent<br>Licence Easting: 561500<br>Licence Northing: 173500<br>Operator Location: Blue Circle House, Holborough, SNODLAND, Kent, ME6 5PH<br>Authority: Environment Agency - Southern Region, Kent Area<br>Site Category: Landfill<br>Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Status: Site not yet started<br>Dated: 6th October 1992<br>Preceded By: Not Given<br>Licence:<br>Superseded By: Not Given<br>Licence:<br>Positional Accuracy: Approximate location provided by supplier<br>Boundary Accuracy: Not Applicable<br>Authorised Waste<br>Kent Cat. A -Inert *<br>Kent Cat. B -Semi-Inert *<br>Kent Cat. C -Putres.Or Diff. *<br>Prohibited Waste<br>Car Fragmentiser Waste<br>Contaminated Material/Rubble<br>Contaminated Soil<br>Hospital Wastes<br>Spec.Waste (Epa'90:S62/1996 Regs)<br>Waste N.O.S. | B14SE (NE)                             | 170                          | 2       | 561339 173308 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: Thanet Sand Formation                                                                                                                                                                                                                                                                                                                                                                                                                   | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: White Chalk Subgroup                                                                                                                                                                                                                                                                                                                                                                                                                    | B10NE (E)                              | 0                            | 1       | 561224 172801 |
| 39     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 227234<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | B13SW (NW)                             | 0                            | 1       | 560175 173205 |
| 40     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwatling Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 227235<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | B13NE (N)                              | 0                            | 1       | 560705 173540 |
| 41     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Manor House Farm Clay Pit<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 130854<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Palaeocene<br>Geology: Lambeth Group<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                  | B13NE (NW)                             | 0                            | 1       | 560483 173635 |
| 42     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Southfield Road Clay Pit<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 130855<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Palaeocene<br>Geology: Lambeth Group<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                   | B14NW (N)                              | 0                            | 1       | 560941 173466 |
| 43     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Southfield Road Clay Pit<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 130856<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Palaeocene<br>Geology: Lambeth Group<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                   | B14NW (N)                              | 0                            | 1       | 561007 173561 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 44     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Southfield Road Clay Pit<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 130857<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Palaeocene<br>Geology: Lambeth Group<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                                                                              | B14NW (N)                              | 0                            | 1       | 561056 173468 |
| 45     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Betsham Denehole<br>Location: , Betsham, Southfleet, Gravesend, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220930<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                                                                        | B9SE (SW)                              | 82                           | 1       | 560727 172720 |
| 46     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Ebbsfleet Chalk Pits<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131053<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                                                                                           | B14SE (NE)                             | 270                          | 1       | 561340 173367 |
| 47     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Betsham Shaft<br>Location: , Betsham, Gravesend, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 192539<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                                                                                          | B9SE (SW)                              | 283                          | 1       | 560602 172414 |
| 48     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Eastern Quarry<br>Location: Northfleetwating Street, Bean, Dartford, Kent, Da2 8ah<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 227236<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                                                             | B10NW (NW)                             | 287                          | 1       | 560880 173015 |
| 49     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Park Corner Chalk Pit<br>Location: , Betsham, Gravesend, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 130876<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: Lewes Nodular Chalk Formation, Seaford Chalk Formation And Newhaven Chalk Formation (Undifferentiate)<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | B10SW (S)                              | 357                          | 1       | 560965 172535 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 50     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Ebbsfleet Chalk Pits<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131052<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                          | B14NE (NE)                             | 364                          | 1       | 561379 173722 |
| 51     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Southfield Road Chalk Pit<br>Location: , Swanscombe, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131043<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                     | B10NE (NE)                             | 432                          | 1       | 561170 173029 |
| 52     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Springhead Parkway Denehole<br>Location: , Wombwell Park, Northfleet, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 220405<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | B11NE (E)                              | 922                          | 1       | 561908 173039 |
|        | <b>Coal Mining Affected Areas</b><br>In an area that might not be affected by coal mining                                                                                                                                                                                                                                                                                                                                                                                            |                                        |                              |         |               |
|        | <b>Mining Instability</b><br>Mining Evidence: Conclusive Rock Mining<br>Source: Ove Arup & Partners<br>Boundary Quality: As Supplied                                                                                                                                                                                                                                                                                                                                                 | B10NW (N)                              | 0                            | -       | 560954 172838 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 560600<br>Northing: 172800<br>Distance: 0<br>Quadrant Reference: B9<br>Quadrant Reference: NE<br>Bearing Ref: W<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology No Details<br>Detail:                                                                                                                       | B9NE (W)                               | 0                            | 6       | 560600 172800 |
|        | <b>Man-Made Mining Cavities</b><br>Easting: 560700<br>Northing: 172800<br>Distance: 67<br>Quadrant Reference: B9<br>Quadrant Reference: NE<br>Bearing Ref: W<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology Made Ground<br>Detail:                                                                                                                     | B9NE (W)                               | 67                           | 6       | 560700 172800 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Man-Made Mining Cavities</b><br>Easting: 561910<br>Northing: 173040<br>Distance: 924<br>Quadrant Reference: B11<br>Quadrant Reference: NE<br>Bearing Ref: E<br>Cavity Type: Denehole:- vertical shaft having chambers at the base<br>Commodity: Chalk<br>Solid Geology Detail: Thanet Sand Formation, Chalk Group<br>Superficial Geology No Details<br>Detail: | B11NE (E)                              | 924                          | 6       | 561910 173040 |
|        | <b>Natural Cavities</b><br>Easting: 560500<br>Northing: 172220<br>Distance: 475<br>Quadrant Reference: B5<br>Quadrant Reference: NE<br>Bearing Ref: SW<br>Cavity Type: Solution Pipe<br>Solid Geology Detail: Chalk Group, Thanet Sand Formation<br>Superficial Geology No Details<br>Detail:                                                                     | B5NE (SW)                              | 475                          | 6       | 560500 172220 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                              | B13NE (NW)                             | 0                            | 1       | 560491 173623 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                              | B9NE (W)                               | 0                            | 1       | 560607 172951 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Likely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                       | B10NW (SW)                             | 0                            | 1       | 560815 172769 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                              | B9NW (W)                               | 0                            | 1       | 560353 172748 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                         | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                         | B13SE (NW)                             | 0                            | 1       | 560522 173193 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Likely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                | B9NE (SW)                              | 33                           | 1       | 560773 172742 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Likely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                       | B9SE (SW)                              | 183                          | 1       | 560667 172490 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Likely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                | B9SE (SW)                              | 233                          | 1       | 560635 172452 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                             | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                           | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                            | B10SW (SW)                             | 0                            | 1       | 560907 172733 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                            | B13SE (NW)                             | 0                            | 1       | 560652 173318 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                            | B14NW (N)                              | 0                            | 1       | 560805 173584 |

| Map ID | Details                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | B13NW (NW)                             | 0                            | 1       | 560126 173716 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | B10NW (NW)                             | 27                           | 1       | 560952 172840 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | B10NE (E)                              | 30                           | 1       | 561230 172950 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | B9NE (W)                               | 0                            | 1       | 560582 172873 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | B9NE (W)                               | 0                            | 1       | 560568 172816 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | B9NE (W)                               | 0                            | 1       | 560497 172857 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: High<br>Source: British Geological Survey, National Geoscience Information Service      | B14NW (N)                              | 0                            | 1       | 560930 173741 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service       | B9NE (W)                               | 0                            | 1       | 560505 172834 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service       | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | B13NE (N)                              | 0                            | 1       | 560735 173548 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | B9NE (W)                               | 0                            | 1       | 560658 172940 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | B9NW (W)                               | 0                            | 1       | 560360 172753 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | B9NE (W)                               | 0                            | 1       | 560556 172861 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | B9NW (W)                               | 0                            | 1       | 560378 172848 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | B13NE (NW)                             | 0                            | 1       | 560542 173614 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | B14NW (N)                              | 0                            | 1       | 561111 173548 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | B15NW (NE)                             | 112                          | 1       | 561477 173465 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | B14SE (NE)                             | 195                          | 1       | 561206 173225 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | B14SE (NE)                             | 209                          | 1       | 561292 173331 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | B14NW (N)                              | 0                            | 1       | 561048 173702 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | B9NE (W)                               | 0                            | 1       | 560610 172796 |



| Map ID | Details                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service     | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B13SE (NW)                             | 0                            | 1       | 560474 173135 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B9NE (W)                               | 0                            | 1       | 560638 172759 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B9NE (W)                               | 0                            | 1       | 560478 172767 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B9NW (W)                               | 0                            | 1       | 560239 172829 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B14SW (N)                              | 0                            | 1       | 561038 173240 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service     | B9NW (W)                               | 0                            | 1       | 560293 172750 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B13SE (NW)                             | 21                           | 1       | 560764 173200 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B13SE (NW)                             | 54                           | 1       | 560611 173115 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B9SW (W)                               | 69                           | 1       | 560238 172586 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service     | B14SE (NE)                             | 74                           | 1       | 561188 173355 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B10SW (SW)                             | 91                           | 1       | 560820 172667 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service          | B9SE (SW)                              | 135                          | 1       | 560455 172559 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | B14SW (N)                              | 0                            | 1       | 561038 173240 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | B10NW (N)                              | 0                            | 1       | 560985 172933 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service       | B13SE (NW)                             | 0                            | 1       | 560522 173193 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | B14SW (N)                              | 0                            | 1       | 560908 173299 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | B14SW (N)                              | 0                            | 1       | 560849 173201 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | B14NW (N)                              | 0                            | 1       | 561048 173702 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | B13NE (NW)                             | 0                            | 1       | 560491 173623 |

| Map ID | Details                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                              | B9NW (W)                               | 0                            | 1       | 560293 172750 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                              | B9NE (W)                               | 0                            | 1       | 560610 172796 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                               | B14SW (N)                              | 0                            | 1       | 560981 173397 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                               | B13NE (N)                              | 0                            | 1       | 560739 173643 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                               | B13SE (NW)                             | 21                           | 1       | 560592 173194 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                               | B10NW (NW)                             | 27                           | 1       | 560952 172840 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                               | B14SE (NE)                             | 88                           | 1       | 561161 173136 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                               | B10SW (S)                              | 95                           | 1       | 560874 172535 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | B13SE (NW)                             | 0                            | 1       | 560522 173193 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | B10NW (N)                              | 0                            | 1       | 560985 172933 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | B13NE (N)                              | 0                            | 1       | 560728 173607 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | B10SW (SW)                             | 0                            | 1       | 560820 172667 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | B9NW (W)                               | 0                            | 1       | 560353 172748 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | B9NE (W)                               | 0                            | 1       | 560607 172951 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                 | B13NE (NW)                             | 0                            | 1       | 560491 173623 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | B13SE (NW)                             | 21                           | 1       | 560592 173194 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                | B10SW (S)                              | 95                           | 1       | 560874 172535 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | B9NE (W)                               | 0                            | 1       | 560502 172849 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | B13NW (NW)                             | 0                            | 1       | 560377 173724 |

| Map ID | Details                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | B10NW (N)                              | 0                            | 1       | 560954 172838 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | B9NE (W)                               | 0                            | 1       | 560502 172849 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | B13NW (NW)                             | 0                            | 1       | 560377 173724 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service            | B10NW (N)                              | 0                            | 1       | 560954 172838 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 53     | <b>Contemporary Trade Directory Entries</b><br>Name: European Precision Mouldings Ltd<br>Location: Park Corner Rd, Southfleet, Gravesend, Kent, DA13 9LJ<br>Classification: Plastics - Injection Moulding<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the road within the address or location | B5SE (S)                               | 682                          | -       | 560716 172020 |
| 54     | <b>Contemporary Trade Directory Entries</b><br>Name: Shoreline 24<br>Location: North End Farm, Park Corner Rd, Southfleet, Gravesend, Kent, DA13 9LJ<br>Classification: Packaging & Wrapping Equipment & Supplies<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location         | B5SE (S)                               | 741                          | -       | 560656 171957 |
| 54     | <b>Contemporary Trade Directory Entries</b><br>Name: Betsham Service Station<br>Location: Park Corner Rd, Southfleet, Gravesend, Kent, DA13 9LS<br>Classification: Petrol Filling Stations<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the road within the address or location                | B5SE (S)                               | 758                          | -       | 560624 171940 |
| 55     | <b>Contemporary Trade Directory Entries</b><br>Name: Springhead Service Station<br>Location: Watling Street, Southfleet, Gravesend, Kent, DA11 8AA<br>Classification: Petrol Filling Stations - 24 Hour<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                          | B11SW (E)                              | 831                          | -       | 561480 172721 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Storefast Solutions<br>Location: Unit V, Springhead Enterprise Park, Springhead Road, Northfleet, Gravesend, Kent, DA11 8HN<br>Classification: Food Products - Manufacturers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address  | B15NE (NE)                             | 956                          | -       | 562040 173434 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: A2b Ltd<br>Location: Unit V1, Springhead Enterprise Pk, Springhead Rd, Northfleet, Gravesend, Kent, DA11 8HL<br>Classification: Distribution Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                | B15NE (NE)                             | 956                          | -       | 562039 173433 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Towers Thompson<br>Location: Unit V3-V4, Springhead Enterprise Park, Springhead Road, Northfleet, GRAVESEND, Kent, DA11 8HN<br>Classification: Meat - Wholesale<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address               | B15NE (NE)                             | 979                          | -       | 562063 173457 |
| 57     | <b>Fuel Station Entries</b><br>Name: Springhead Service Station<br>Location: Watling Street, Southfleet, GRAVESEND, Kent, DA11 8AA<br>Brand: 3d<br>Premises Type: Not Applicable<br><b>Status:</b> Obsolete<br>Positional Accuracy: Automatically positioned to the address                                                 | B11SW (E)                              | 831                          | -       | 561480 172721 |
| 58     | <b>Fuel Station Entries</b><br>Name: Betsham Service Station<br>Location: Betsham Road, Park Corner Road, Southfleet, GRAVESEND, Kent, DA13 9LS<br>Brand: Obsolete<br>Premises Type: Not Applicable<br><b>Status:</b> Obsolete<br>Positional Accuracy: Manually positioned to the road within the address or location       | B5SE (S)                               | 959                          | -       | 560525 171736 |
| 59     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264727<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013                                                                                                                                          | B9SW (W)                               | 0                            | 7       | 560390 172691 |

| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 60     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264733<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9SW (W)                               | 0                            | 7       | 560390 172690 |
| 61     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264736<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9SW (W)                               | 0                            | 7       | 560390 172690 |
| 62     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264731<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9SW (W)                               | 0                            | 7       | 560390 172691 |
| 63     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264740<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9SW (W)                               | 0                            | 7       | 560390 172689 |
| 64     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264726<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9NE (W)                               | 1                            | 7       | 560725 172801 |
| 65     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264285<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10SW (SW)                             | 2                            | 7       | 560827 172697 |
| 66     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264284<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9NE (W)                               | 2                            | 7       | 560726 172801 |
| 67     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264738<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 3                            | 7       | 560806 172789 |
| 68     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264735<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 3                            | 7       | 560806 172781 |
| 69     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264695<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10SW (SW)                             | 83                           | 7       | 560818 172729 |

| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 70     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264669<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10SW (SW)                             | 83                           | 7       | 560818 172729 |
| 71     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264729<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9NE (W)                               | 92                           | 7       | 560727 172832 |
| 72     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264725<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B9NE (W)                               | 92                           | 7       | 560727 172832 |
| 73     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264276<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10SW (S)                              | 173                          | 7       | 560958 172736 |
| 74     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264275<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10SW (S)                              | 173                          | 7       | 560958 172733 |
| 75     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264732<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 180                          | 7       | 560908 172837 |
| 76     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264710<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 259                          | 7       | 560905 172836 |
| 77     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264705<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 259                          | 7       | 560905 172836 |
| 78     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264700<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 260                          | 7       | 560906 172836 |
| 79     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264280<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 260                          | 7       | 560906 172837 |



| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 80     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264724<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 261                          | 7       | 560907 172837 |
| 81     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264719<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 261                          | 7       | 560907 172837 |
| 82     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264279<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 271                          | 7       | 560905 172841 |
| 83     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264704<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 271                          | 7       | 560905 172841 |
| 84     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264277<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 271                          | 7       | 560906 172841 |
| 85     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264282<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 277                          | 7       | 560907 172841 |
| 86     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264281<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 277                          | 7       | 560906 172841 |
| 87     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264723<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NW (W)                              | 278                          | 7       | 560907 172841 |
| 88     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264709<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 519                          | 7       | 561165 172745 |
| 89     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264711<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 519                          | 7       | 561164 172747 |

| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 90     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264696<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 519                          | 7       | 561165 172746 |
| 91     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264673<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 519                          | 7       | 561165 172745 |
| 92     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264701<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 519                          | 7       | 561165 172746 |
| 93     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264674<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 520                          | 7       | 561164 172748 |
| 94     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264715<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 520                          | 7       | 561164 172747 |
| 95     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 264722<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B10NE (SE)                             | 520                          | 7       | 561164 172748 |
| 96     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270571<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 852                          | 7       | 561500 172695 |
| 97     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270572<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 852                          | 7       | 561499 172694 |
| 98     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270573<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 852                          | 7       | 561499 172694 |
| 99     | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270570<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 852                          | 7       | 561500 172695 |

| Map ID | Details                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 100    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270574<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 852                          | 7       | 561499 172693 |
| 101    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270569<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 852                          | 7       | 561500 172696 |
| 102    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270567<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 853                          | 7       | 561500 172697 |
| 103    | <b>Underground Electrical Cables</b><br>Unique Feature Identifier: 270568<br>Cable Status: Commissioned<br>Cable Type: Pilot (Communication)<br>Record Last Updated: 4th June 2013 | B11SW (E)                              | 853                          | 7       | 561500 172696 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 104    | <b>Ancient Woodland</b><br>Name: Parkhill Wood<br>Reference: 1486875<br>Area(m²): 47737.79<br>Type: Ancient and Semi-Natural Woodland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (W)                                    | 60                           | 8       | 560106<br>172627 |
| 105    | <b>Areas of Unadopted Green Belt</b><br>Authority: Dartford Borough Council<br>Plan Name: Dartford Borough Local Plan Review<br>Status: <b>Second Deposit Draft</b><br>Plan Date: 30th September 2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B10SW (S)                              | 8                            | 10      | 560960<br>172672 |
| 106    | <b>National Nature Reserves</b><br>Name: Swanscombe Skull Site<br>Multiple Areas: N<br>Total Area (m2): 20873.27<br>Source: Natural England<br>Reference: 1006139<br>Designation Date: Not Supplied                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (NW)                                   | 126                          | 8       | 559874<br>174206 |
| 107    | <b>Nitrate Vulnerable Zones</b><br>Name: Not Supplied<br>Description: Groundwater<br>Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B10NW (N)                              | 0                            | 11      | 560954<br>172838 |
| 108    | <b>Sites of Special Scientific Interest</b><br>Name: Swanscombe Skull Site<br>Multiple Areas: N<br>Total Area (m2): 38785.32<br>Source: Natural England<br>Reference: 1003665<br>Designation Details: National Nature Reserve<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Local Nature Reserve<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Nature Conservation Review<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Geological Conservation Review<br>Designation Date: 11th January 1988<br>Date Type: Notified<br>Designation Details: Site Of Special Scientific Interest<br>Designation Date: 11th January 1988<br>Date Type: Notified | (NW)                                   | 28                           | 8       | 559912<br>174209 |
| 109    | <b>Sites of Special Scientific Interest</b><br>Name: Bakers Hole<br>Multiple Areas: N<br>Total Area (m2): 68851.5<br>Source: Natural England<br>Reference: 1001611<br>Designation Details: Local Nature Reserve<br>Designation Date: 11th May 1989<br>Date Type: Notified<br>Designation Details: Geological Conservation Review<br>Designation Date: 11th May 1989<br>Date Type: Notified<br>Designation Details: Site Of Special Scientific Interest<br>Designation Date: 11th May 1989<br>Date Type: Notified                                                                                                                                                                                                                                                       | (N)                                    | 281                          | 8       | 561231<br>173984 |

| Agency & Hydrological                                                                                                                                                                                                                                             | Version                                          | Update Cycle                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------|
| <b>Contaminated Land Register Entries and Notices</b><br>Dartford Borough Council - Environmental Health Department<br>Gravesham Borough Council - Public Health Services<br>Sevenoaks District Council - Environmental Health Department                         | October 2014<br>September 2013<br>September 2013 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Discharge Consents</b><br>Environment Agency - Southern Region                                                                                                                                                                                                 | April 2016                                       | Quarterly                                                               |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - Southern Region                                                                                                                                                                                | March 2013                                       | As notified                                                             |
| <b>Integrated Pollution Controls</b><br>Environment Agency - Southern Region                                                                                                                                                                                      | October 2008                                     | Not Applicable                                                          |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - Southern Region                                                                                                                                                                        | April 2016                                       | Quarterly                                                               |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Gravesham Borough Council - Environmental Health Department<br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department   | October 2014<br>September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Controls</b><br>Gravesham Borough Council - Environmental Health Department<br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department             | October 2014<br>September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Gravesham Borough Council - Environmental Health Department<br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department | October 2014<br>September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey                                                                                                                                                                                                           | July 2012                                        | Quarterly                                                               |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Southern Region                                                                                                                                                                           | December 1999                                    | Not Applicable                                                          |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - Southern Region                                                                                                                                                                      | March 2013                                       | As notified                                                             |
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - Southern Region                                                                                                                                                                         | March 2013                                       | As notified                                                             |
| <b>River Quality</b><br>Environment Agency - Head Office                                                                                                                                                                                                          | November 2001                                    | Not Applicable                                                          |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                                                  | July 2012                                        | Annually                                                                |
| <b>River Quality Chemistry Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                                                | July 2012                                        | Annually                                                                |
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                                                               | April 2016<br>April 2016                         | Quarterly<br>Quarterly                                                  |
| <b>Water Abstractions</b><br>Environment Agency - Southern Region                                                                                                                                                                                                 | January 2016                                     | Quarterly                                                               |
| <b>Water Industry Act Referrals</b><br>Environment Agency - Southern Region                                                                                                                                                                                       | April 2016                                       | Quarterly                                                               |
| <b>Groundwater Vulnerability</b><br>Environment Agency - Head Office                                                                                                                                                                                              | April 2015                                       | Not Applicable                                                          |
| <b>Drift Deposits</b><br>Environment Agency - Head Office                                                                                                                                                                                                         | January 1999                                     | Not Applicable                                                          |
| <b>Bedrock Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                        | August 2015                                      | As notified                                                             |

| Agency & Hydrological                                                                                                                                                                                                                                     | Version                                      | Update Cycle                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|
| <b>Superficial Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                            | August 2015                                  | As notified                                                          |
| <b>Source Protection Zones</b><br>Environment Agency - Head Office                                                                                                                                                                                        | April 2016                                   | Quarterly                                                            |
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                                                                           | February 2016                                | Quarterly                                                            |
| <b>Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                                                                                   | February 2016                                | Quarterly                                                            |
| <b>Areas Benefiting from Flood Defences</b><br>Environment Agency - Head Office                                                                                                                                                                           | February 2016                                | Quarterly                                                            |
| <b>Flood Water Storage Areas</b><br>Environment Agency - Head Office                                                                                                                                                                                      | February 2016                                | Quarterly                                                            |
| <b>Flood Defences</b><br>Environment Agency - Head Office                                                                                                                                                                                                 | February 2016                                | Quarterly                                                            |
| <b>Detailed River Network Lines</b><br>Environment Agency - Head Office                                                                                                                                                                                   | March 2012                                   | Annually                                                             |
| <b>Detailed River Network Offline Drainage</b><br>Environment Agency - Head Office                                                                                                                                                                        | March 2012                                   | Annually                                                             |
| <b>BGS Groundwater Flooding Susceptibility</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                     | May 2013                                     | Annually                                                             |
| Waste                                                                                                                                                                                                                                                     | Version                                      | Update Cycle                                                         |
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                 | June 1996                                    | Not Applicable                                                       |
| <b>Historical Landfill Sites</b><br>Environment Agency - Head Office                                                                                                                                                                                      | May 2016                                     | Quarterly                                                            |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - Southern Region                                                                                                                                                        | October 2008                                 | Not Applicable                                                       |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency - South East Region - Kent & South London Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex | May 2016<br>May 2016<br>May 2016             | Quarterly<br>Quarterly<br>Quarterly                                  |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                                                | April 2016<br>April 2016                     | Quarterly<br>Quarterly                                               |
| <b>Local Authority Landfill Coverage</b><br>Dartford Borough Council - Environmental Health Department<br>Gravesham Borough Council<br>Kent County Council - Waste Management Group<br>Sevenoaks District Council                                         | May 2000<br>May 2000<br>May 2000<br>May 2000 | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Local Authority Recorded Landfill Sites</b><br>Dartford Borough Council - Environmental Health Department<br>Gravesham Borough Council<br>Kent County Council - Waste Management Group<br>Sevenoaks District Council                                   | May 2000<br>May 2000<br>May 2000<br>May 2000 | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Registered Landfill Sites</b><br>Environment Agency - Southern Region - Kent Area                                                                                                                                                                      | March 2003                                   | Not Applicable                                                       |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency - Southern Region - Kent Area                                                                                                                                                                | March 2003                                   | Not Applicable                                                       |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency - Southern Region - Kent Area                                                                                                                                                   | March 2003                                   | Not Applicable                                                       |



| Hazardous Substances                                                                                                                                           | Version                                                       | Update Cycle                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive                                                                          | February 2016                                                 | Bi-Annually                                                                                      |
| <b>Explosive Sites</b><br>Health and Safety Executive                                                                                                          | February 2016                                                 | Bi-Annually                                                                                      |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive                                                      | November 2000                                                 | Not Applicable                                                                                   |
| <b>Planning Hazardous Substance Enforcements</b><br>Sevenoaks District Council<br>Dartford Borough Council<br>Kent County Council<br>Gravesham Borough Council | February 2016<br>January 2016<br>January 2016<br>October 2015 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Planning Hazardous Substance Consents</b><br>Sevenoaks District Council<br>Dartford Borough Council<br>Kent County Council<br>Gravesham Borough Council     | February 2016<br>January 2016<br>January 2016<br>October 2015 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| Geological                                                                                                                                                     | Version                                                       | Update Cycle                                                                                     |
| <b>BGS 1:625,000 Solid Geology</b><br>British Geological Survey - National Geoscience Information Service                                                      | January 2009                                                  | Not Applicable                                                                                   |
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service                                                       | May 2016                                                      | Bi-Annually                                                                                      |
| <b>Brine Compensation Area</b><br>Cheshire Brine Subsidence Compensation Board                                                                                 | August 2011                                                   | Not Applicable                                                                                   |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Property Searches                                                                                    | March 2014                                                    | As notified                                                                                      |
| <b>Mining Instability</b><br>Ove Arup & Partners                                                                                                               | October 2000                                                  | Not Applicable                                                                                   |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                                           | May 2015                                                      | Not Applicable                                                                                   |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                               | June 2015                                                     | Annually                                                                                         |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                              | June 2015                                                     | Annually                                                                                         |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                               | June 2015                                                     | Annually                                                                                         |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                 | June 2015                                                     | Annually                                                                                         |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                              | June 2015                                                     | Annually                                                                                         |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                | June 2015                                                     | Annually                                                                                         |
| <b>Radon Potential - Radon Affected Areas</b><br>British Geological Survey - National Geoscience Information Service                                           | July 2011                                                     | As notified                                                                                      |
| <b>Radon Potential - Radon Protection Measures</b><br>British Geological Survey - National Geoscience Information Service                                      | July 2011                                                     | As notified                                                                                      |

| Industrial Land Use                                                                                                         | Version                                      | Update Cycle                              |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------|
| <b>Contemporary Trade Directory Entries</b><br>Thomson Directories                                                          | April 2016                                   | Quarterly                                 |
| <b>Fuel Station Entries</b><br>Catalist Ltd - Experian                                                                      | February 2016                                | Quarterly                                 |
| <b>Gas Pipelines</b><br>National Grid                                                                                       | July 2014                                    | Quarterly                                 |
| <b>Underground Electrical Cables</b><br>National Grid                                                                       | January 2016                                 | Bi-Annually                               |
| Sensitive Land Use                                                                                                          | Version                                      | Update Cycle                              |
| <b>Ancient Woodland</b><br>Natural England                                                                                  | June 2015                                    | Bi-Annually                               |
| <b>Areas of Adopted Green Belt</b><br>Dartford Borough Council<br>Gravesham Borough Council<br>Sevenoaks District Council   | May 2016<br>May 2016<br>May 2016             | As notified<br>As notified<br>As notified |
| <b>Areas of Unadopted Green Belt</b><br>Dartford Borough Council<br>Gravesham Borough Council<br>Sevenoaks District Council | November 201<br>November 201<br>November 201 | As notified<br>As notified<br>As notified |
| <b>Areas of Outstanding Natural Beauty</b><br>Natural England                                                               | April 2016                                   | Bi-Annually                               |
| <b>Environmentally Sensitive Areas</b><br>Natural England                                                                   | April 2016                                   | Annually                                  |
| <b>Forest Parks</b><br>Forestry Commission                                                                                  | April 1997                                   | Not Applicable                            |
| <b>Local Nature Reserves</b><br>Natural England                                                                             | April 2016                                   | Bi-Annually                               |
| <b>Marine Nature Reserves</b><br>Natural England                                                                            | April 2016                                   | Bi-Annually                               |
| <b>National Nature Reserves</b><br>Natural England                                                                          | April 2016                                   | Bi-Annually                               |
| <b>National Parks</b><br>Natural England                                                                                    | March 2016                                   | Bi-Annually                               |
| <b>Nitrate Sensitive Areas</b><br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)                | April 2016                                   | Not Applicable                            |
| <b>Nitrate Vulnerable Zones</b><br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)               | October 2015                                 | Annually                                  |
| <b>Ramsar Sites</b><br>Natural England                                                                                      | April 2016                                   | Bi-Annually                               |
| <b>Sites of Special Scientific Interest</b><br>Natural England                                                              | April 2016                                   | Bi-Annually                               |
| <b>Special Areas of Conservation</b><br>Natural England                                                                     | April 2016                                   | Bi-Annually                               |
| <b>Special Protection Areas</b><br>Natural England                                                                          | April 2016                                   | Bi-Annually                               |
| <b>World Heritage Sites</b><br>English Heritage - National Monument Record Centre                                           | September 2015                               | Bi-Annually                               |

A selection of organisations who provide data within this report

| Data Supplier                          | Data Supplier Logo                                                                                                                                                    |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordnance Survey                        |                                                                                    |
| Environment Agency                     |                                                                                    |
| Scottish Environment Protection Agency |                                                                                    |
| The Coal Authority                     |                                                                                    |
| British Geological Survey              |  <b>British Geological Survey</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL          |
| Centre for Ecology and Hydrology       |  <b>Centre for Ecology &amp; Hydrology</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL |
| Natural Resources Wales                |                                                                                   |
| Scottish Natural Heritage              |                                                                                  |
| Natural England                        |                                                                                  |
| Public Health England                  |                                                                                  |
| Ove Arup                               |                                                                                  |
| Peter Brett Associates                 |                                                                                  |



| Contact | Name and Address                                                                                                                                                  | Contact Details                                                                                                                                                                                                                      |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Kingsley Dunham Centre, Keyworth,<br>Nottingham, Nottinghamshire, NG12 5GG       | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a><br>Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>                                                   |
| 2       | <b>Environment Agency - National Customer Contact Centre (NCCC)</b><br>PO Box 544, Templeborough, Rotherham, S60 1BY                                              | Telephone: 03708 506 506<br>Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>                                                                                                      |
| 3       | <b>Dartford Borough Council - Environmental Health Department</b><br>Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR                                          | Telephone: 01322 343233<br>Fax: 01322 343963<br>Website: <a href="http://www.dartford.gov.uk">www.dartford.gov.uk</a>                                                                                                                |
| 4       | <b>Kent County Council - Waste Management Group</b><br>Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT                                                | Telephone: 01622 605976<br>Website: <a href="http://www.kent.gov.uk">www.kent.gov.uk</a>                                                                                                                                             |
| 5       | <b>Gravesham Borough Council</b><br>Cygnet House, 132 Windmill Street, Gravesend, Kent, DA12 1AU                                                                  | Telephone: 01474 564422<br>Fax: 01474 337546<br>Website: <a href="http://www.gravesham.gov.uk">www.gravesham.gov.uk</a>                                                                                                              |
| 6       | <b>Peter Brett Associates</b><br>Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN                                                              | Telephone: 0118 950 0761<br>Fax: 0118 959 7498<br>Email: <a href="mailto:reading@pba.co.uk">reading@pba.co.uk</a><br>Website: <a href="http://www.pba.co.uk">www.pba.co.uk</a>                                                       |
| 8       | <b>Natural England</b><br>County Hall, Spetchley Road, Worcester, WR5 2NP                                                                                         | Telephone: 0300 060 3900<br>Email: <a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a><br>Website: <a href="http://www.naturalengland.org.uk">www.naturalengland.org.uk</a>                         |
| 9       | <b>Gravesham Borough Council</b><br>Cygnet House, 132 Windmill Street, Gravesend, Kent, DA12 1BQ                                                                  | Telephone: 01474 564422<br>Fax: 01474 337546<br>Website: <a href="http://www.gravesham.gov.uk">www.gravesham.gov.uk</a>                                                                                                              |
| 10      | <b>Dartford Borough Council</b><br>Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR                                                                            | Telephone: 01322 343434<br>Fax: 01322 343047<br>Website: <a href="http://www.dartford.gov.uk">www.dartford.gov.uk</a>                                                                                                                |
| 11      | <b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b><br>Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT | Telephone: 0113 2613333<br>Fax: 0113 230 0879                                                                                                                                                                                        |
| -       | <b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b><br>Chilton, Didcot, Oxfordshire, OX11 0RQ                   | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: <a href="mailto:radon@phe.gov.uk">radon@phe.gov.uk</a><br>Website: <a href="http://www.ukradon.org">www.ukradon.org</a>                                                       |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                                  | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a><br>Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a> |

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

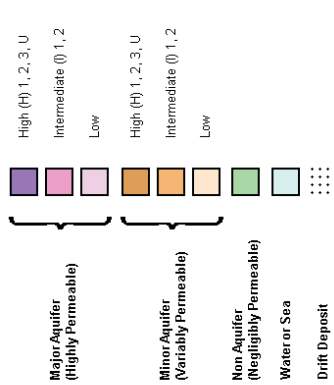
## Groundwater Vulnerability

**General**

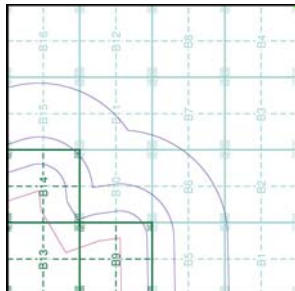
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Map ID

### Agency and Hydrological

#### Soil Classes



### Site Sensitivity Context Map - Slice B



### Order Details

Order Number: 88304408.1\_1  
 Customer Ref: 25012/00  
 National Grid Reference: 560950, 172940  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF



## Bedrock Aquifer Designation

### General

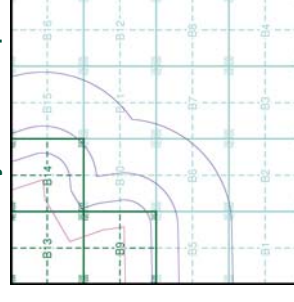
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landlip)

### Site Sensitivity Context Map - Slice B



### Order Details

Order Number: 89304408.1\_1  
Customer Ref: 25012/00  
National Grid Reference: 560950, 172940  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
Kent, DA10 0DF



## Superficial Aquifer Designation

**General**

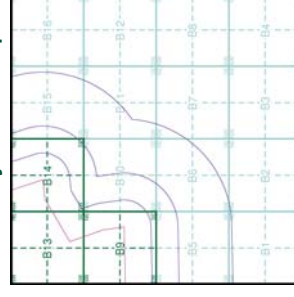
- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

### Agency and Hydrological

**Geological Classes**

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landlip)

### Site Sensitivity Context Map - Slice B



### Order Details

Order Number: 89304408.1\_1  
 Customer Ref: 25012/00  
 National Grid Reference: 560950, 172940  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF

## Source Protection Zones

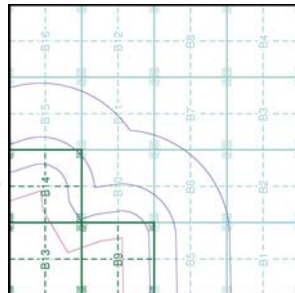
### General

- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

### Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special Interest (Zone 4)
- Source Protection Zone Borehole

## Site Sensitivity Context Map - Slice B



### Order Details

Order Number: 88304408\_1\_1  
Customer Ref: 25012/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

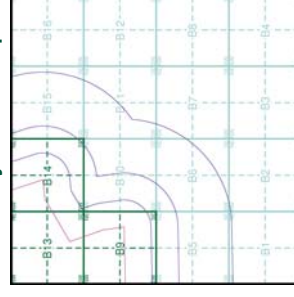
Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
Kent, DA10 0DF



## Sensitive Land Uses

- General**
- Specified Site
  - Specified Buffer(s)
  - Map ID
  - Bearing Reference Point
- Sensitive Land Uses**
- Ancient Woodland
  - Area of Adopted Green Belt
  - Area of Unadopted Green Belt
  - Area of Outstanding Natural Beauty
  - Environmentally Sensitive Area
  - Forest Park
  - Local Nature Reserve
  - Marine Nature Reserve
  - National Nature Reserve
  - National Park
  - Nitrates Sensitive Area
  - Nitrates Vulnerable Zone
  - Ramsar Site
  - Site of Special Scientific Interest
  - Special Area of Conservation
  - Special Protection Area
  - World Heritage Sites

## Site Sensitivity Context Map - Slice B



### Order Details

Order Number: 8830408.1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
 Kent, DA10 0DF



## BGS Flood GFS Data

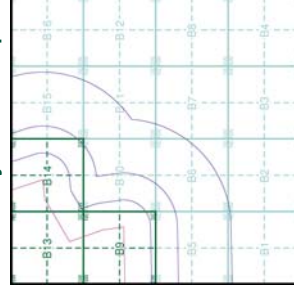
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

### Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

## Site Sensitivity Context Map - Slice B



### Order Details

Order Number: 8830408.1\_1  
Customer Ref: 25012/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Baron Wilmore, The Observatory, Southfleet Road, SWANSCOMBE,  
Kent, DA10 0DF





## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 560950, 172840 |
| Slice:                   | B              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 1000           |

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

## Industrial Land Use Map

- General**
- Specified Site
  - Specified Buffer(s)
  - Map ID
  - Bearing Reference Point
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry
  - Gas Pipeline
  - Underground Electrical Cables

## Industrial Land Use Map - Slice B

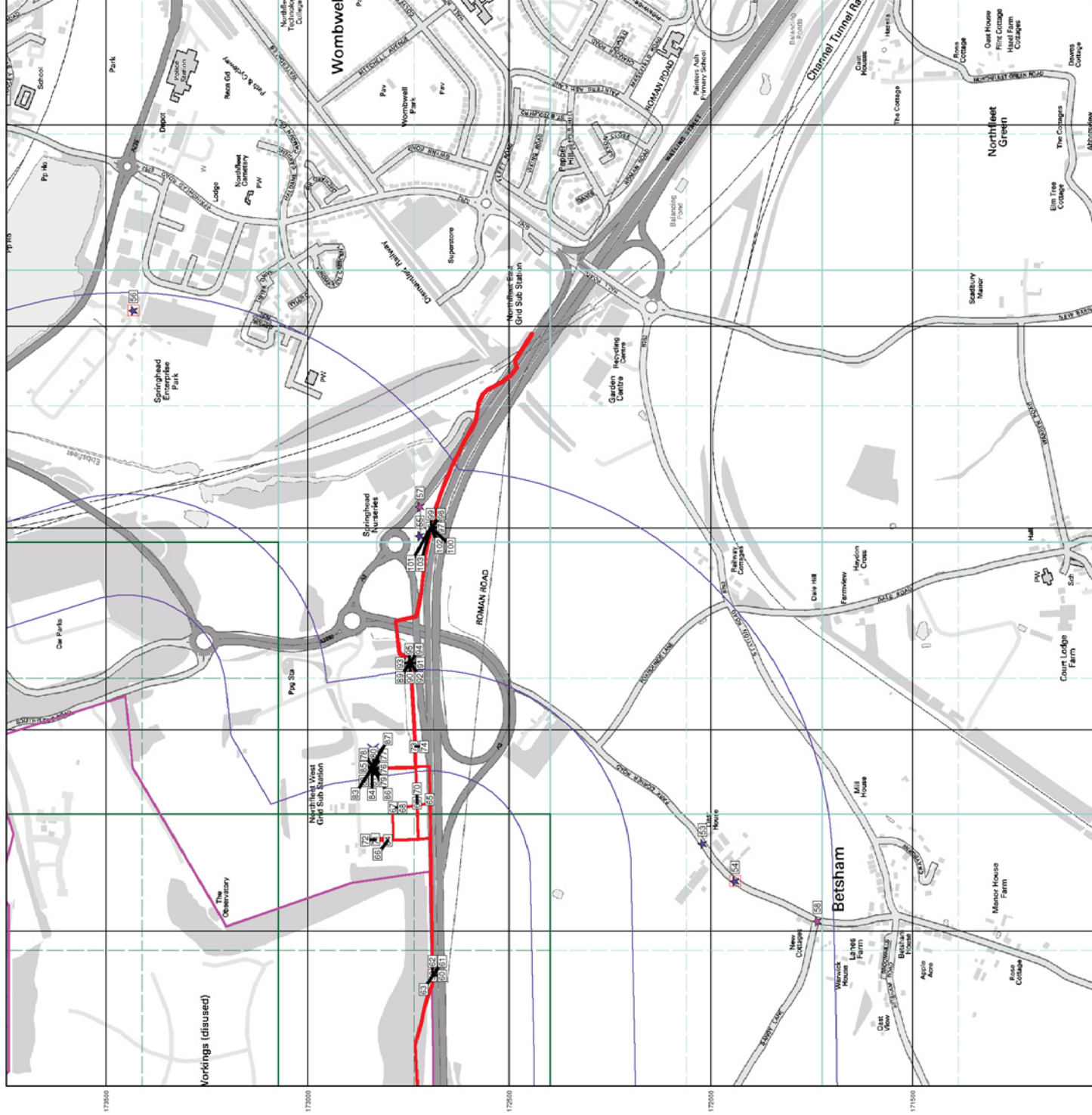


## Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





# **General** Specified Site Specified Buffer(s) Bearing Reference Point **Agency and Hydrological (Flood)**

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence



## **Flood Map - Slice B**



## **Order Details**

Order Number: 89304408 - 1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

## **Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF

- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location

**Agency and Hydrological (Boreholes)**

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

**Borehole Map - Slice B**

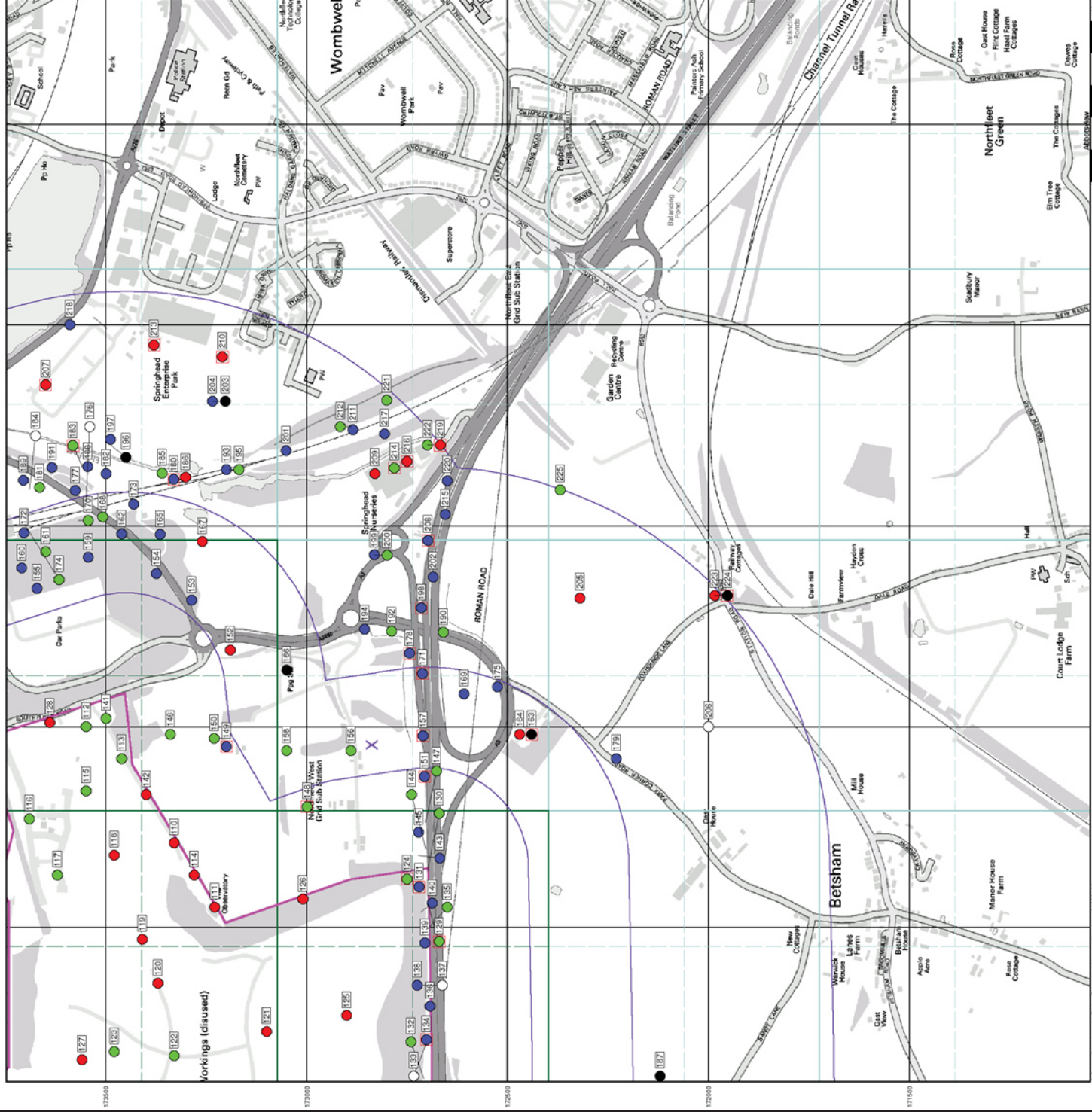


**Order Details**

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID

## Detailed River Network Data

-  Primary River
-  Secondary River
-  Tertiary River
-  Canal
-  Canal Tunnel
-  Undefined River
-  Lake/Reservoir
-  Offline Drainage Feature
-  Extended Culvert (greater than 50m)
-  Underground River (inferred)
-  Underground River (local knowledge)
-  Downstream of High Water Mark
-  Downstream of Seaward Extension
-  Not assigned River feature

## EANRW Detailed River Network Map - Slice B

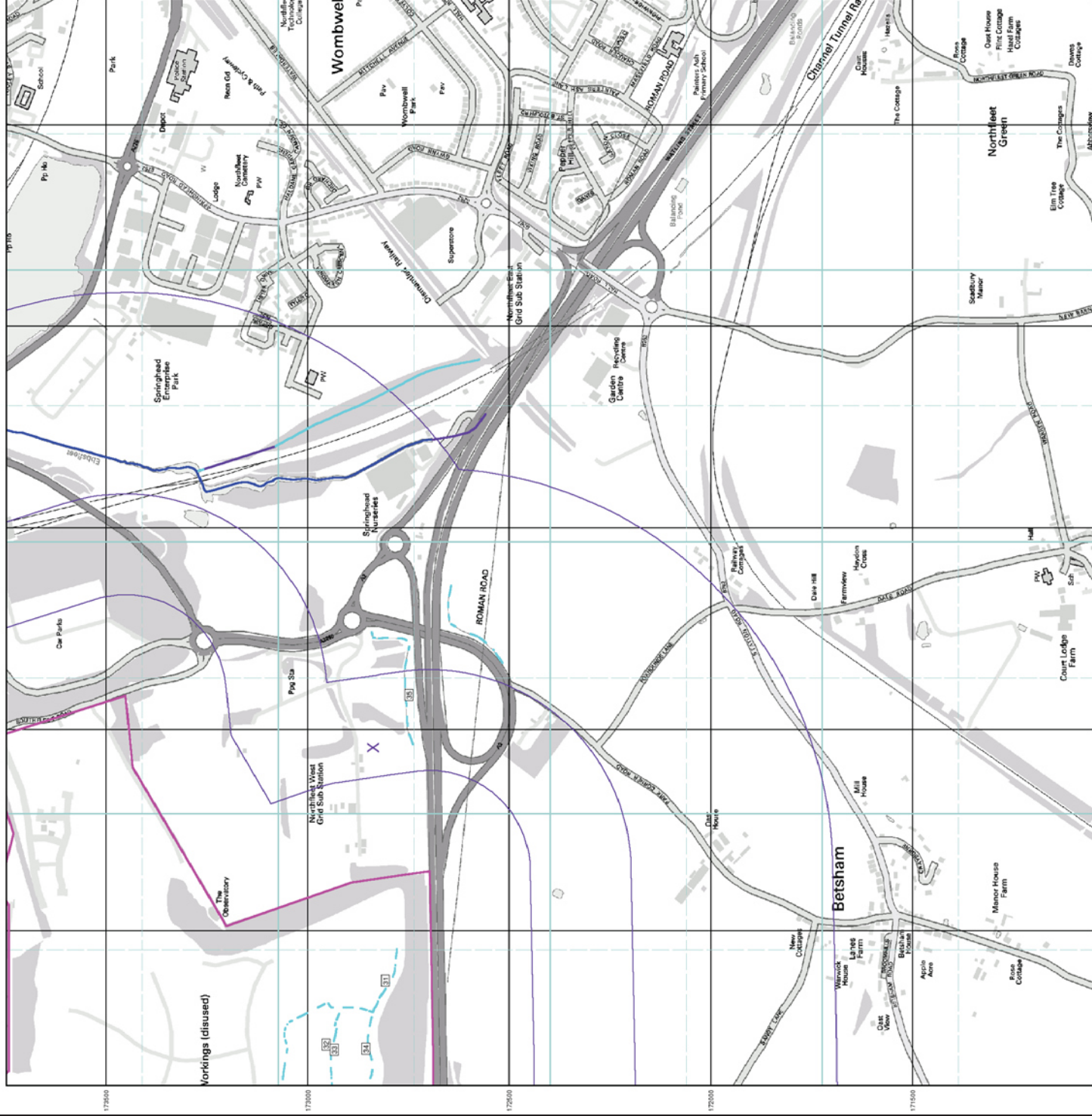


## Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## **Envirocheck<sup>®</sup> Report:**

### **Historical Data Report Datasheet**

#### **Order Details:**

**Order Number:**

89304408\_1\_1

**Customer Reference:**

250122/00

**National Grid Reference:**

560950, 172840

**Slice:**

B

**Site Area (Ha):**

272.38

**Search Buffer (m):**

1000

#### **Site Details:**

Barton Wilmore, The Observatory  
Southfleet Road  
SWANSCOMBE  
Kent  
DA10 0DF

#### **Client Details:**

Mr P Measham  
Ove Arup & Partners International Ltd  
13 Fitzroy Street  
London  
W1T 4BQ

| Report Section                          | Page Number |
|-----------------------------------------|-------------|
| Summary                                 | -           |
| Historical Building Plans Information   | -           |
| Historical Land Use Information         | 1           |
| Historical Tanks and Energy Facilities  | -           |
| Historical Map List                     | 3           |
| Useful Contacts and Further Information | 4           |

### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

### Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer. A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

### Report Version v50.0

| Data Type                                                 | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m |
|-----------------------------------------------------------|-------------|---------|-----------|-------------|--------------|
| <b>Historical Building Plans Information</b>              |             |         |           |             |              |
| Areas Cleared Due To Enemy Action                         |             |         |           |             |              |
| Above Ground Fuel Tanks (100m)                            |             |         |           | n/a         | n/a          |
| Asbestos (100m)                                           |             |         |           | n/a         | n/a          |
| Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)      |             |         |           | n/a         | n/a          |
| Electricity Generation (100m)                             |             |         |           | n/a         | n/a          |
| Electricity Sub-Station (100m)                            |             |         |           | n/a         | n/a          |
| Gas Industry (100m)                                       |             |         |           | n/a         | n/a          |
| Gas Storage (100m)                                        |             |         |           | n/a         | n/a          |
| Gas Use (100m)                                            |             |         |           | n/a         | n/a          |
| Oil Industry (100m)                                       |             |         |           | n/a         | n/a          |
| Oil Storage (100m)                                        |             |         |           | n/a         | n/a          |
| Oil Use (100m)                                            |             |         |           | n/a         | n/a          |
| Paint based Oils (100m)                                   |             |         |           | n/a         | n/a          |
| Paraffin (100m)                                           |             |         |           | n/a         | n/a          |
| Petrol and Diesel Industry (100m)                         |             |         |           | n/a         | n/a          |
| Petrol and Diesel Storage (100m)                          |             |         |           | n/a         | n/a          |
| Petrol and Diesel Use (100m)                              |             |         |           | n/a         | n/a          |
| Potential Fuel Gas (100m)                                 |             |         |           | n/a         | n/a          |
| Potential Fuel Oil (100m)                                 |             |         |           | n/a         | n/a          |
| Potential Fuel Use (100m)                                 |             |         |           | n/a         | n/a          |
| Potential Petrol and Diesel (100m)                        |             |         |           | n/a         | n/a          |
| Potential Tanks (100m)                                    |             |         |           | n/a         | n/a          |
| Potentially Fuel-related Tanks (100m)                     |             |         |           | n/a         | n/a          |
| Underground Fuel Tanks (100m)                             |             |         |           | n/a         | n/a          |
| <b>Historical Land Use Information</b>                    |             |         |           |             |              |
| Former Marshes                                            |             |         |           |             |              |
| Historical Flood Liabilities                              |             |         |           |             |              |
| Potentially Contaminative Industrial Uses (Past Land Use) | pg 1        | 6       | 5         | 3           | 4            |
| Potentially Infilled Land (Non-Water)                     | pg 1        | 2       | 3         | 3           |              |
| Potentially Infilled Land (Water)                         | pg 2        | 1       |           |             | 5            |



| Data Type                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m |
|-----------------------------------------------|-------------|---------|-----------|-------------|--------------|
| <b>Historical Tanks and Energy Facilities</b> |             |         |           |             |              |
| Electrical Sub Station Facilities (100m)      |             |         |           | n/a         | n/a          |
| Electricity Industry Facilities (100m)        |             |         |           | n/a         | n/a          |
| Gas Industry Facilities (100m)                |             |         |           | n/a         | n/a          |
| Gas Monitoring Facilities (100m)              |             |         |           | n/a         | n/a          |
| Miscellaneous Power Facilities (100m)         |             |         |           | n/a         | n/a          |
| Oil Industry Facilities (100m)                |             |         |           | n/a         | n/a          |
| Petroleum Storage Facilities (100m)           |             |         |           | n/a         | n/a          |
| Potential Tanks (100m)                        |             |         |           | n/a         | n/a          |
| Tanks (100m)                                  |             |         |           | n/a         | n/a          |

| Map ID | Details                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 1      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1898      | B14SW (N)                              | 0                            | 1       | 560985 173405 |
| 2      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Mineral railway<br>Date of Mapping: 1946                                                | B13SE (NW)                             | 0                            | 1       | 560681 173302 |
| 3      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1898      | B13NE (NW)                             | 0                            | 1       | 560494 173632 |
| 4      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1991      | B9NE (W)                               | 0                            | 1       | 560503 172930 |
| 5      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1938      | B9NE (W)                               | 0                            | 1       | 560480 172958 |
| 6      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1992      | B13SW (NW)                             | 0                            | 1       | 560296 173313 |
| 7      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: General quarrying<br>Date of Mapping: 1910 - 1962                                       | B14NW (N)                              | 11                           | 1       | 561071 173736 |
| 8      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1962      | B10NE (E)                              | 20                           | 1       | 561222 172852 |
| 9      | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Electricity production & distribution [inc large transformers]<br>Date of Mapping: 1991 | B10NW (N)                              | 31                           | 1       | 560954 172838 |
| 10     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Mining & quarrying general<br>Date of Mapping: 1909 - 1962                              | B9SE (SW)                              | 84                           | 1       | 560728 172724 |
| 11     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1946      | B14SE (NE)                             | 240                          | 1       | 561381 173096 |
| 12     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Mining & quarrying general<br>Date of Mapping: 1869 - 1991                              | B9SE (SW)                              | 282                          | 1       | 560602 172416 |
| 13     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1869      | B10SW (S)                              | 377                          | 1       | 560984 172528 |
| 14     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1872      | B10NE (NE)                             | 426                          | 1       | 561186 173039 |
| 15     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Sewage<br>Date of Mapping: 1946 - 1991                                                  | B15NW (NE)                             | 656                          | 1       | 561729 173567 |
| 16     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Factory or works - use not specified<br>Date of Mapping: 1991                           | B15SE (NE)                             | 863                          | 1       | 561920 173239 |
| 17     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Quarrying of sand & clay, operation of sand & gravel pits<br>Date of Mapping: 1946      | B15NE (NE)                             | 879                          | 1       | 561994 173638 |
| 18     | <b>Potentially Contaminative Industrial Uses (Past Land Use)</b><br>Use: Road haulage<br>Date of Mapping: 1991                                                   | B7NW (SE)                              | 998                          | 1       | 561545 172240 |
| 19     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                                            | B13NE (NW)                             | 0                            | 1       | 560494 173632 |
| 20     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                                            | B14SW (N)                              | 0                            | 1       | 560985 173405 |
| 21     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                                            | B14NW (N)                              | 13                           | 1       | 561038 173738 |

| Map ID | Details                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 22     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                  | B10NE (E)                              | 20                           | 1       | 561222 172852 |
| 23     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                  | B9SE (SW)                              | 84                           | 1       | 560728 172724 |
| 24     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                  | B14SE (NE)                             | 267                          | 1       | 561381 173096 |
| 25     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                  | B10SW (S)                              | 349                          | 1       | 560947 172520 |
| 26     | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1991                  | B10NE (NE)                             | 426                          | 1       | 561186 173039 |
| 27     | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1869 | B13NE (NW)                             | 0                            | 1       | 560458 173655 |
| 28     | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1938 | B15NW (NE)                             | 653                          | 1       | 561717 173606 |
| 29     | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1962 | B15NE (NE)                             | 777                          | 1       | 561820 173699 |
| 30     | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1909 | B11NW (E)                              | 791                          | 1       | 561590 172845 |
| 31     | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1938 | B15NE (NE)                             | 824                          | 1       | 561865 173716 |
| 32     | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1938 | B15NE (NE)                             | 876                          | 1       | 561950 173581 |



No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

| 1:10,560             | Mapsheet | Published Date |
|----------------------|----------|----------------|
| Kent                 | 010_00   | 1869           |
| Essex                | 088_00   | 1872           |
| Kent                 | 010_NW   | 1898           |
| Kent                 | 010_SW   | 1898           |
| Essex                | 088_NE   | 1898           |
| Kent                 | 010_SW   | 1909           |
| Kent                 | 010_NW   | 1910           |
| Essex                | 095_SE   | 1923           |
| Essex                | 095_SW   | 1923           |
| Kent                 | 010_SW   | 1938           |
| Essex                | 095_SE   | 1938           |
| Kent                 | 010_NW   | 1946           |
| Ordnance Survey Plan | TQ67SW   | 1962           |
| 1:10,000             | Mapsheet | Published Date |
| Ordnance Survey Plan | TQ67SW   | 1991           |

The following mapping has been analysed for Historical Tanks and Energy Facilities:

| 1:2,500              | Mapsheet | Published Date |
|----------------------|----------|----------------|
| Ordnance Survey Plan | TQ6073   | 1961           |
| Ordnance Survey Plan | TQ6073   | 1961           |
| Ordnance Survey Plan | TQ6073   | 1961           |
| Ordnance Survey Plan | TQ6173   | 1961           |
| Ordnance Survey Plan | TQ6072   | 1962           |
| Ordnance Survey Plan | TQ6072   | 1968           |
| Ordnance Survey Plan | TQ6073   | 1970           |
| Ordnance Survey Plan | TQ6073   | 1970           |
| Ordnance Survey Plan | TQ6073   | 1970           |
| Ordnance Survey Plan | TQ6173   | 1970           |
| Ordnance Survey Plan | TQ6073   | 1986           |
| Ordnance Survey Plan | TQ6073   | 1986           |
| Ordnance Survey Plan | TQ6073   | 1986           |
| Ordnance Survey Plan | TQ6173   | 1986           |

| Contact | Name and Address                                                                                 | Contact Details                                                                                                         |
|---------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmark.co.uk<br>Website: www.landmark.co.uk |

### Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

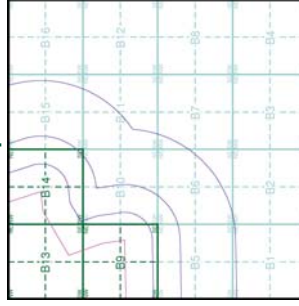
### Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

### Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.

## Historical Data Report - Slice Map B



### Order Details

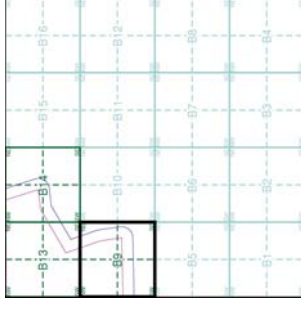
Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Historical Data Report - Segment B9

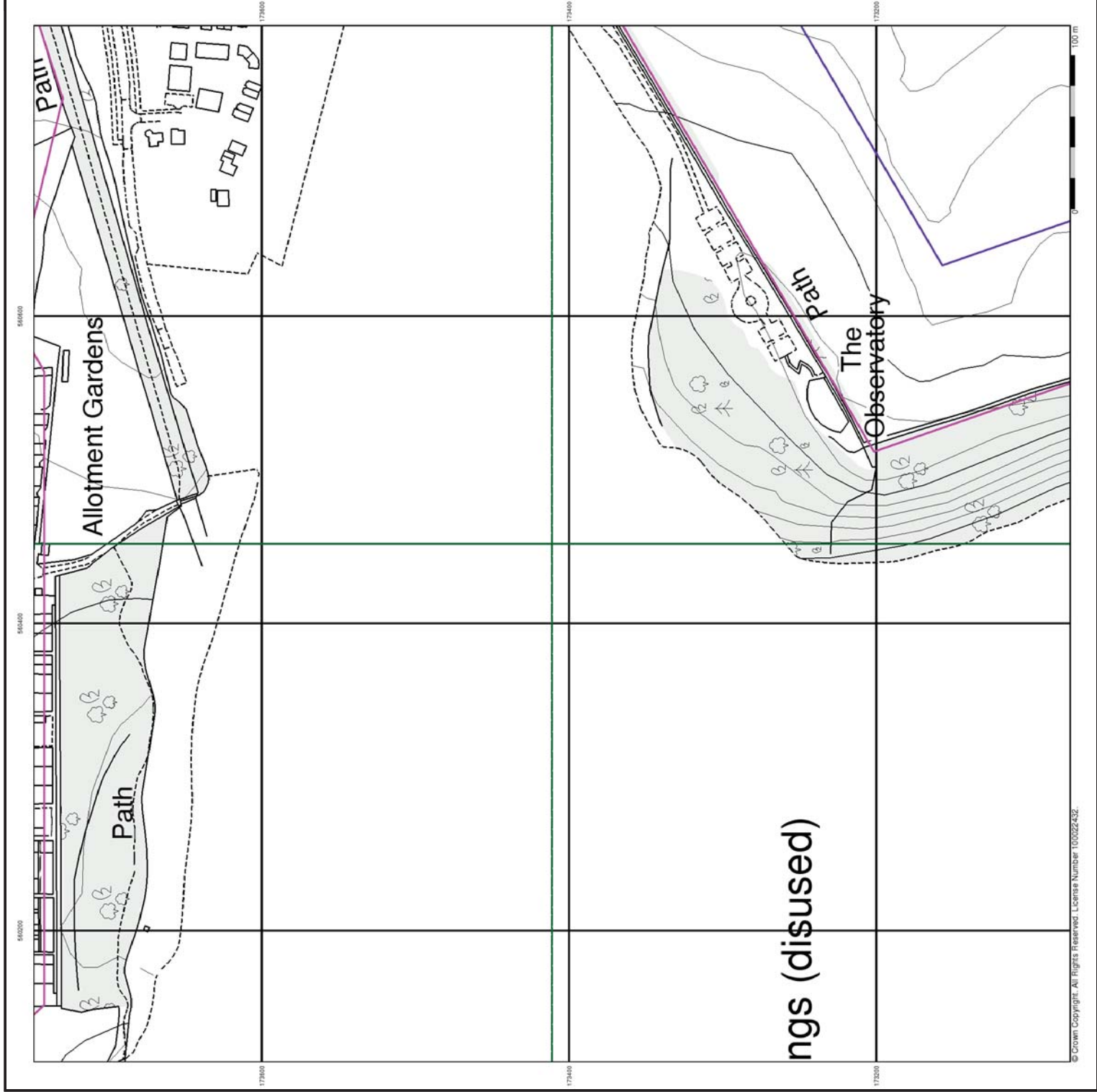


Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Plot Buffer (m): 100

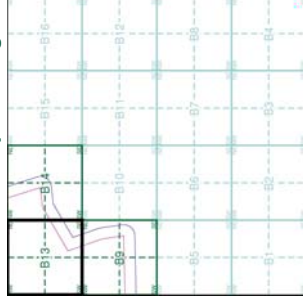
Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



- General**
- Specified Site
  - Several of Type at Location
  - Bearing Reference Point
  - Map ID
- Historical Building Plans**
- Area Cleared due to Enemy Action
- Historical Tanks and Energy Facilities**
- Electrical Sub Station Facility
  - Electricity Industry Facility
  - Gas Industry Facility
  - Gas Monitoring Facility
  - Miscellaneous Power Facility
  - Oil Industry Facility
  - Petroleum Storage Facility
  - Potential Tank
  - Tank
- Historical Building Plans**
- Asbestos
  - Above Ground Fuel Tanks
  - Benzene/Benzocyclohexene
  - Naphthalene/Kerosene
  - Electricity Generation
  - Electricity Sub-Stations
  - Gas Industry
  - Gas Storage
  - Gas Use
  - Oil Industry
  - Oil Storage
  - Oil Use
  - Paint based Oils
  - Paraffin
  - Petrol and Diesel Industry
  - Petrol and Diesel Storage
  - Petrol and Diesel Use
  - Potential Fuel Gas
  - Potential Fuel Oil
  - Potential Fuel Use
  - Potential Petrol and Diesel
  - Potential Tanks
  - Potentially Fuel-related Tanks
  - Underground Fuel Tanks

### Historical Data Report - Segment B13



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Plot Buffer (m): 100

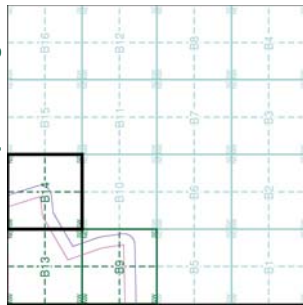
#### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





### Historical Data Report - Segment B14



### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Plot Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



Ordnance Survey County Series 1:10,560

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Ordnance Survey Plan 1:10,000

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

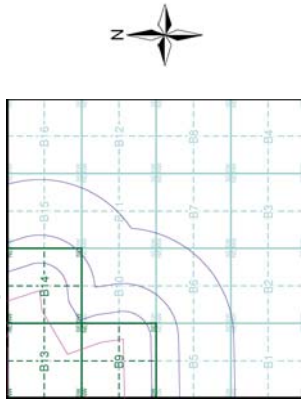
1:10,000 Raster Mapping

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Historical Mapping & Photography included:

| Mapping Type         | Scale    | Date        | Pg |
|----------------------|----------|-------------|----|
| Kent                 | 1:10,560 | 1869        | 2  |
| Essex                | 1:10,560 | 1872        | 3  |
| Essex                | 1:10,560 | 1888        | 4  |
| Kent                 | 1:10,560 | 1888        | 5  |
| Kent                 | 1:10,560 | 1909 - 1910 | 6  |
| Essex                | 1:10,560 | 1923        | 7  |
| Kent                 | 1:10,560 | 1931 - 1932 | 8  |
| Kent                 | 1:10,560 | 1938        | 9  |
| Essex                | 1:10,560 | 1938 - 1951 | 10 |
| Essex                | 1:10,560 | 1938        | 11 |
| Essex                | 1:10,560 | 1938        | 12 |
| Ordnance Survey Plan | 1:10,000 | 1962        | 13 |
| Ordnance Survey Plan | 1:10,000 | 1966        | 14 |
| Ordnance Survey Plan | 1:10,000 | 1973        | 15 |
| Ordnance Survey Plan | 1:10,000 | 1980        | 16 |
| Ordnance Survey Plan | 1:10,000 | 1991        | 17 |
| 10K Raster Mapping   | 1:10,000 | 1999        | 18 |
| Street View          | 1:10,000 | 2015        | 19 |

Historical Map - Slice B



Order Details

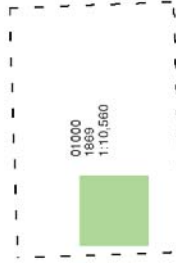
Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

Site Details

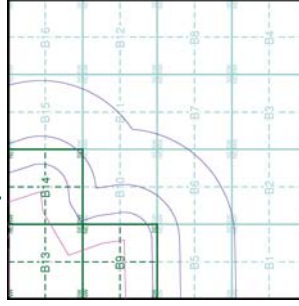
Barton Wilmore, The Observatory, Southfleet Road, SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1864, the Ordnance Survey introduced the 1:10,560 scale maps, which were used to update the 1:10,560 maps. The published data from these maps often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**



**Historical Map - Slice B**

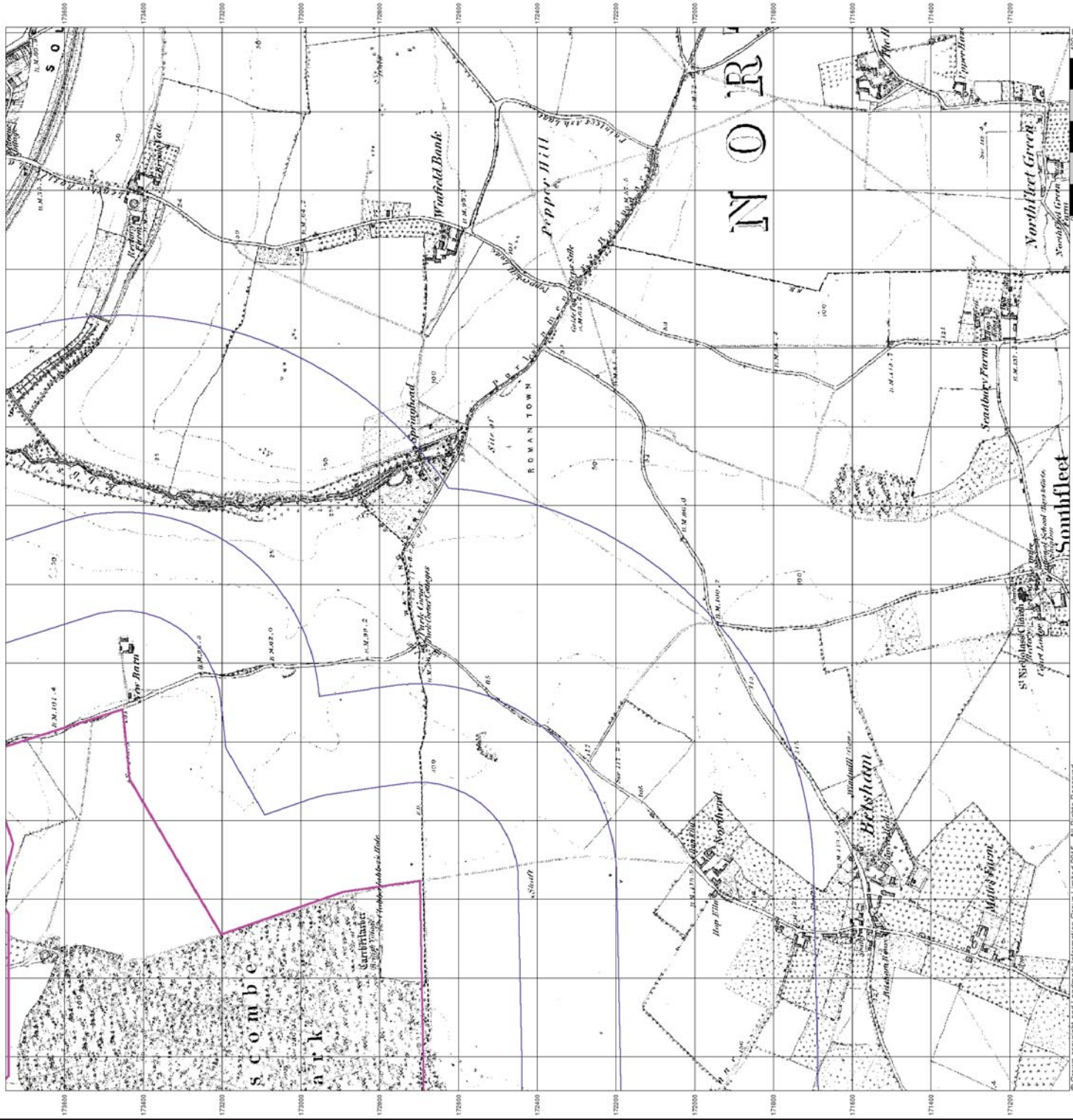


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





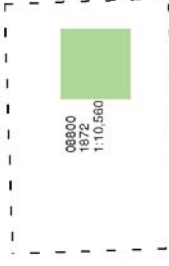
## Essex

### Published 1872

#### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey (OS) began to publish maps of the British Isles. These maps were used to update the 1:10,560 maps. The published data from these maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear 'unfinished' - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

#### Map Name(s) and Date(s)



#### Historical Map - Slice B



#### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

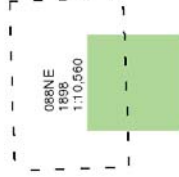
#### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 a new system of maps was adopted for England, Wales and Scotland. These maps were used to update the 1:10,560 maps. The published data from these maps often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

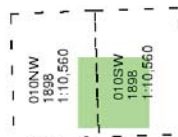
Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

Site Details

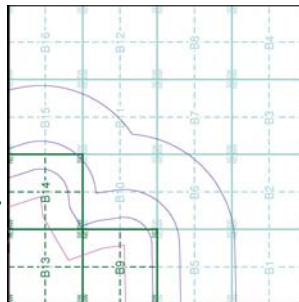
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the state adopted for Mapping Wales and Scotland in the 1940's. In 1864 the 1:250,000 map adopted for mapping urban areas; these maps were produced by the Ordnance Survey in 1855. The 1:50,000 maps were adopted to update the 1:250,000 maps. The first edition of the 1:50,000 map was published in 1893, all OS 1:50,000 maps were based on the Cassini Projection, with independent surveys of a single county in the group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:50,000 mapping from a number of sources. The maps appear unfinished – with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:250,000 map was produced using the Transverse Mercator Projection. The 1:50,000 maps were produced until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



## Historical Map - Slice B



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
B  
Slice:  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



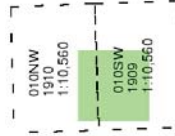
## Kent

### Published 1909 - 1910

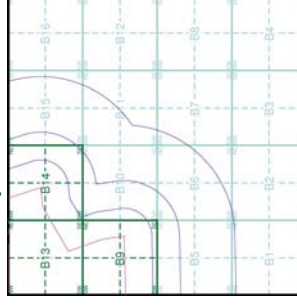
### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940's. In 1854 a new system of map-making was introduced. The published maps are used to update the 1:10,560 maps. The published data is then the same as the original maps. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear 'unfinished' - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice B



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



The historical maps shown were reproduced from maps predominantly held at 1:2500 scale adopted for England, Wales and Scotland in the 1840's. In 1854 the Ordnance Survey (OS) introduced the 1:10,560 scale maps. These maps are used to update the 1:10,560 maps. The published date of the maps is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

|          |          |
|----------|----------|
| 065SW    | 095SE    |
| 1923     | 1923     |
| 1:10,560 | 1:10,560 |

Historical Map - Slice B



Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

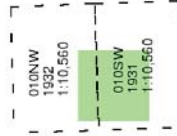
## Kent

Published 1931 - 1932

Source map scale - 1:10,560

The historical maps shown are reproduced from maps predominantly held at the Ordnance Survey, War and Scotland in the 1940's. In 1854, the first 2500 scale maps were published. These maps were used to update the 1:10,560 maps. The published data then the maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in surveying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



## Historical Map - Slice B

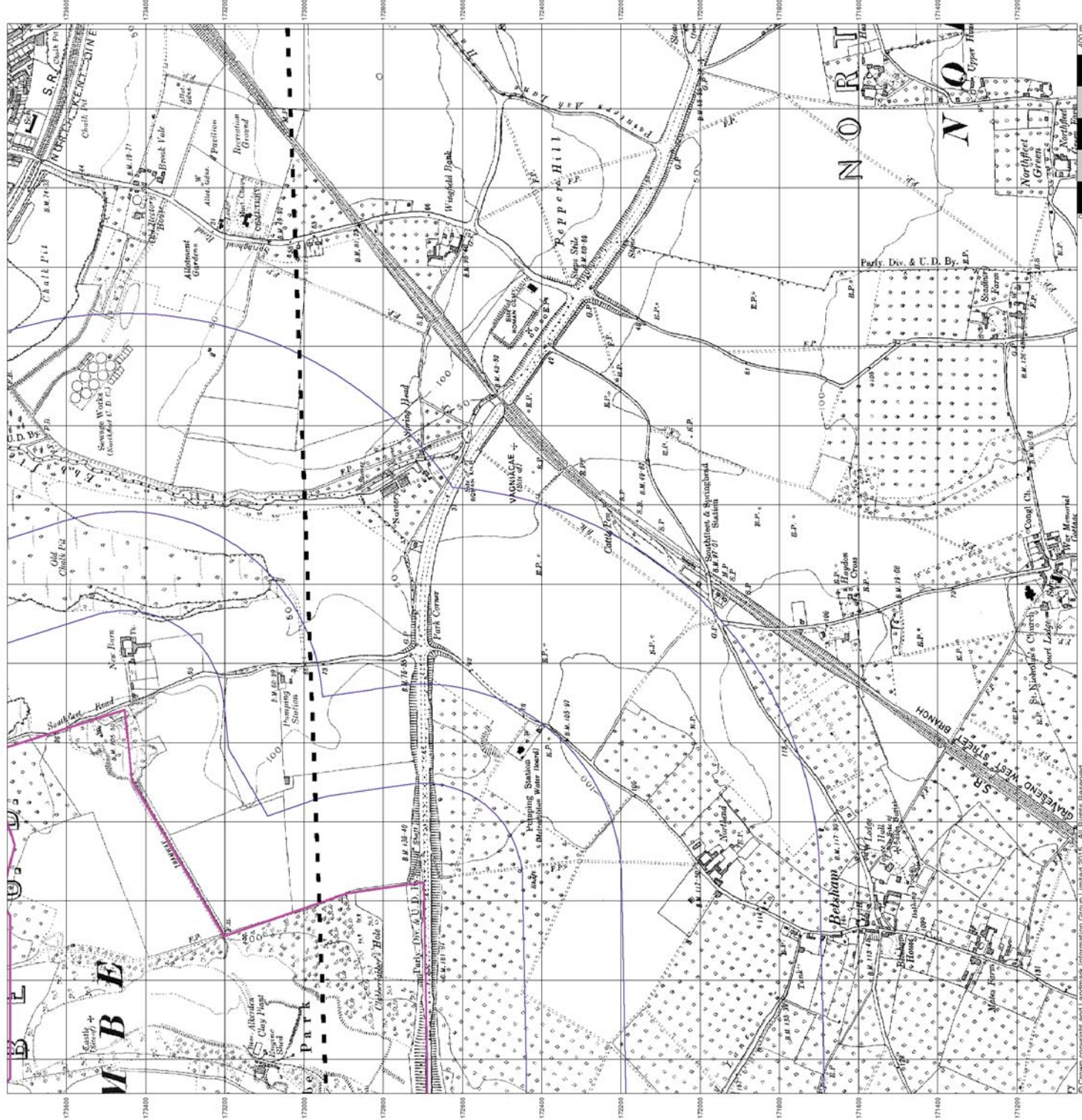


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

## Site Details

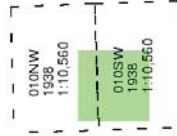
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



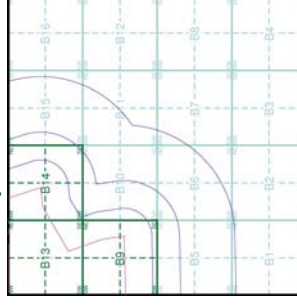


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1954, the Ordnance Survey published the 1:10,560 maps. These maps are used to update the 1:10,560 maps. The published data is then used to update the 1:10,560 maps. Before 1938, all OS maps were based on the Cassini Projection, with significant inaccuracies in cutting county or group of counties, giving rise to independent inaccuracies in cutting areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**



**Historical Map - Slice B**

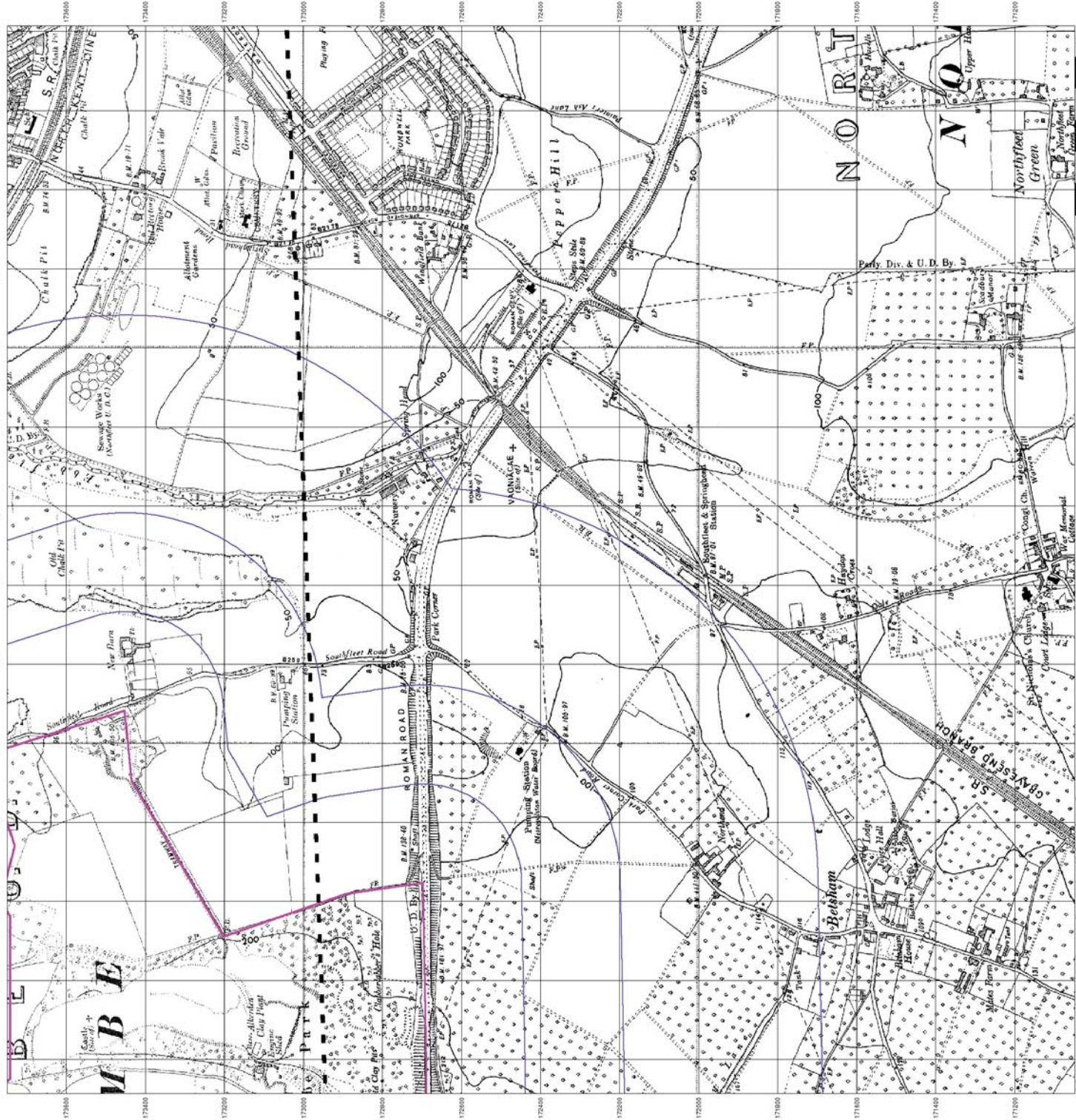


**Order Details**

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 1000

**Site Details**

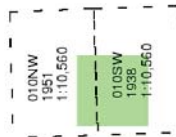
Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



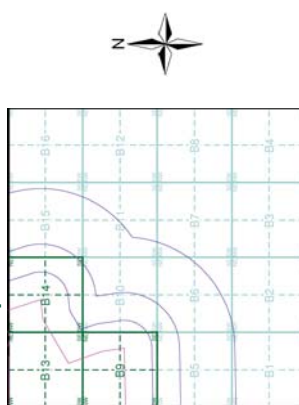


The historical maps shown were reproduced from maps predominantly held at the state archives for England, Wales and Scotland in the 1940's or in 1954 when the 2,500 copies for mapping inland areas, these maps were then updated to reflect the 1950 census. The maps were produced in 1950, 1955 and 1960, often years later than the census date. Before 1938, all OS maps were based on the Cassin Projection, which introduced inaccuracies in a single country or group of counties, giving rise to significant inaccuracies in culling data. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished – with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:11,110 10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



### Historical Map - Slice B



## Order Details

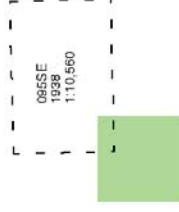
Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
B  
Slice:  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent. DA10 0DF

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the Ordnance Survey introduced the 1:10,560 scale maps, which were used to update the 1:10,560 maps. The published data is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice B

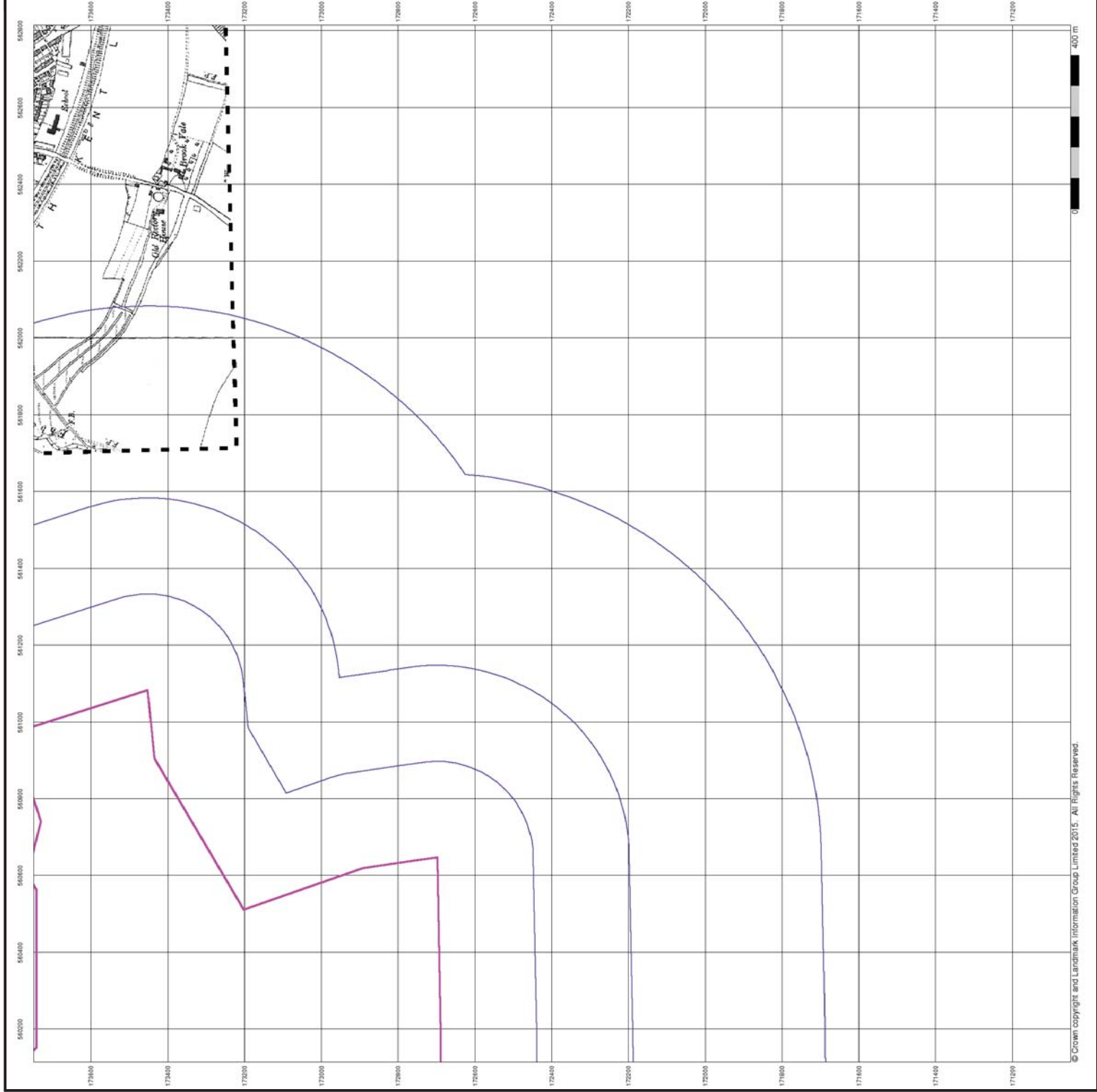


Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

Site Details

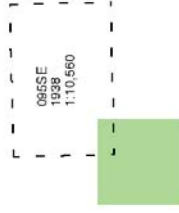
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the Ordnance Survey introduced the 1:10,560 scale maps, which were used to update the 1:10,560 maps. The published data from these maps often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice B

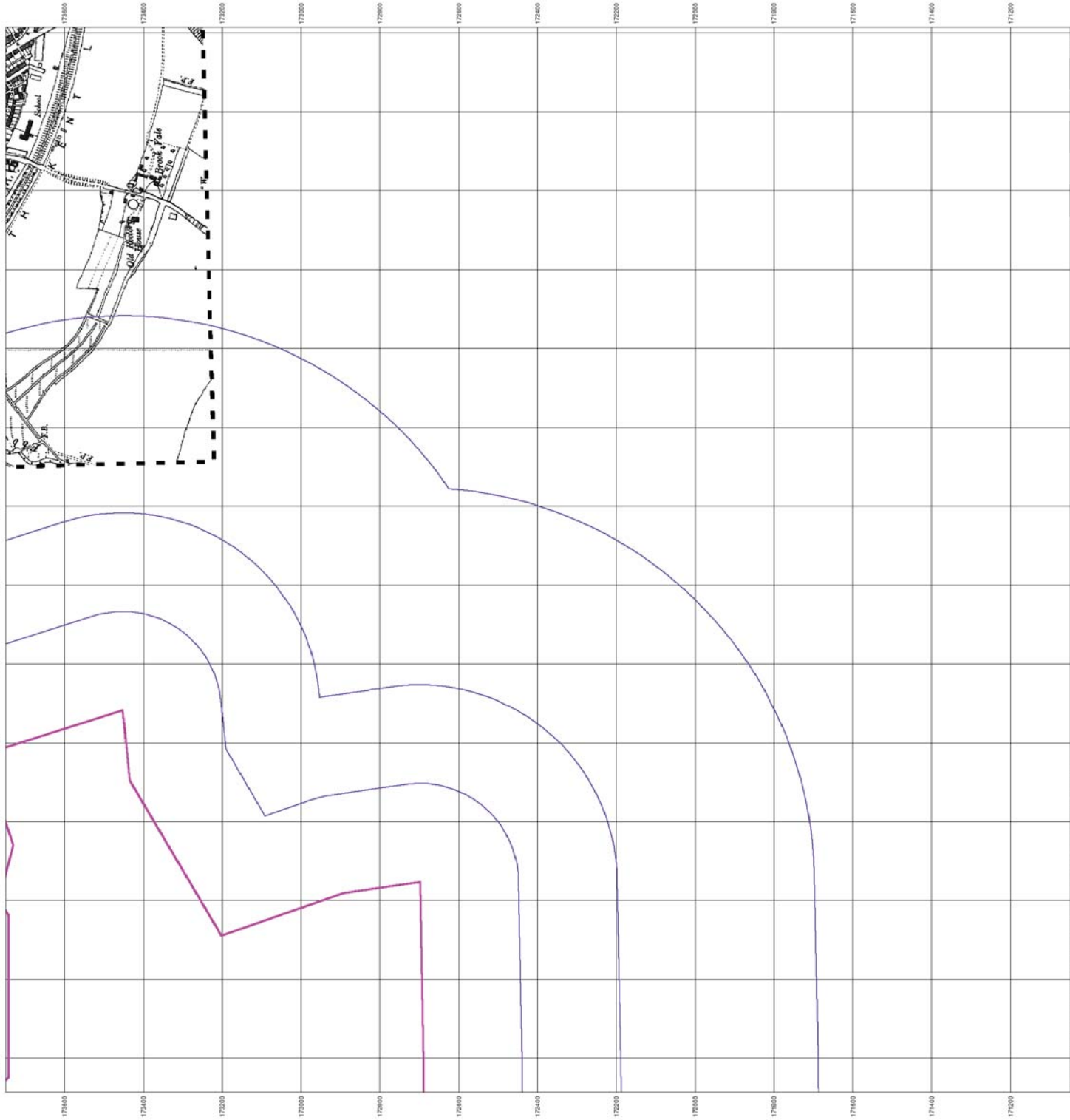


Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



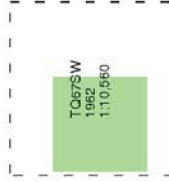


## Ordnance Survey Plan Published 1962

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the 1:10,000 scale maps were used to update the 1:50,000 maps. The published data were then used to update the 1:10,000 maps. Before 1938, all OS maps were based on the Cassini Projection, with significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice B

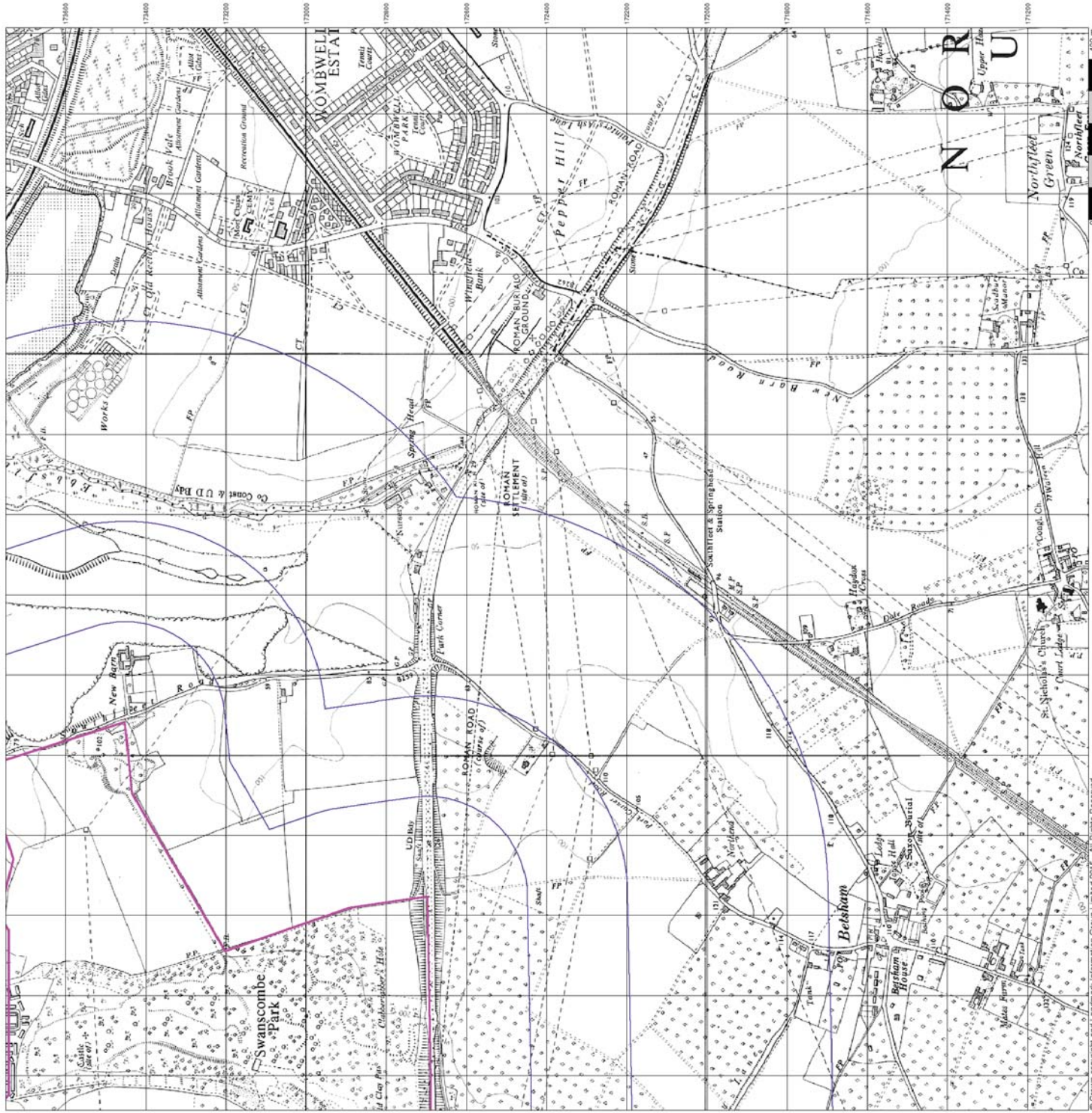


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



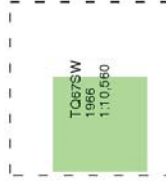


## Ordnance Survey Plan Published 1966

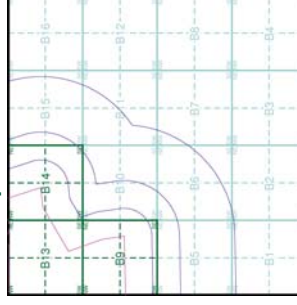
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840's. In 1854, the 1:10,000 scale maps were used to update the 1:50,000 maps. The published data from these maps are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice B



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



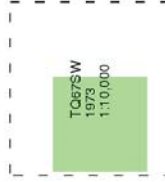


## Ordnance Survey Plan Published 1973

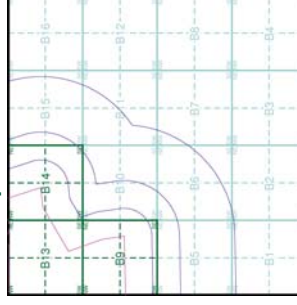
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1954, the Ordnance Survey, Warley and Scotland maps were used to update the 1:10,000 maps. The published data then there are often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in cutting areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice B

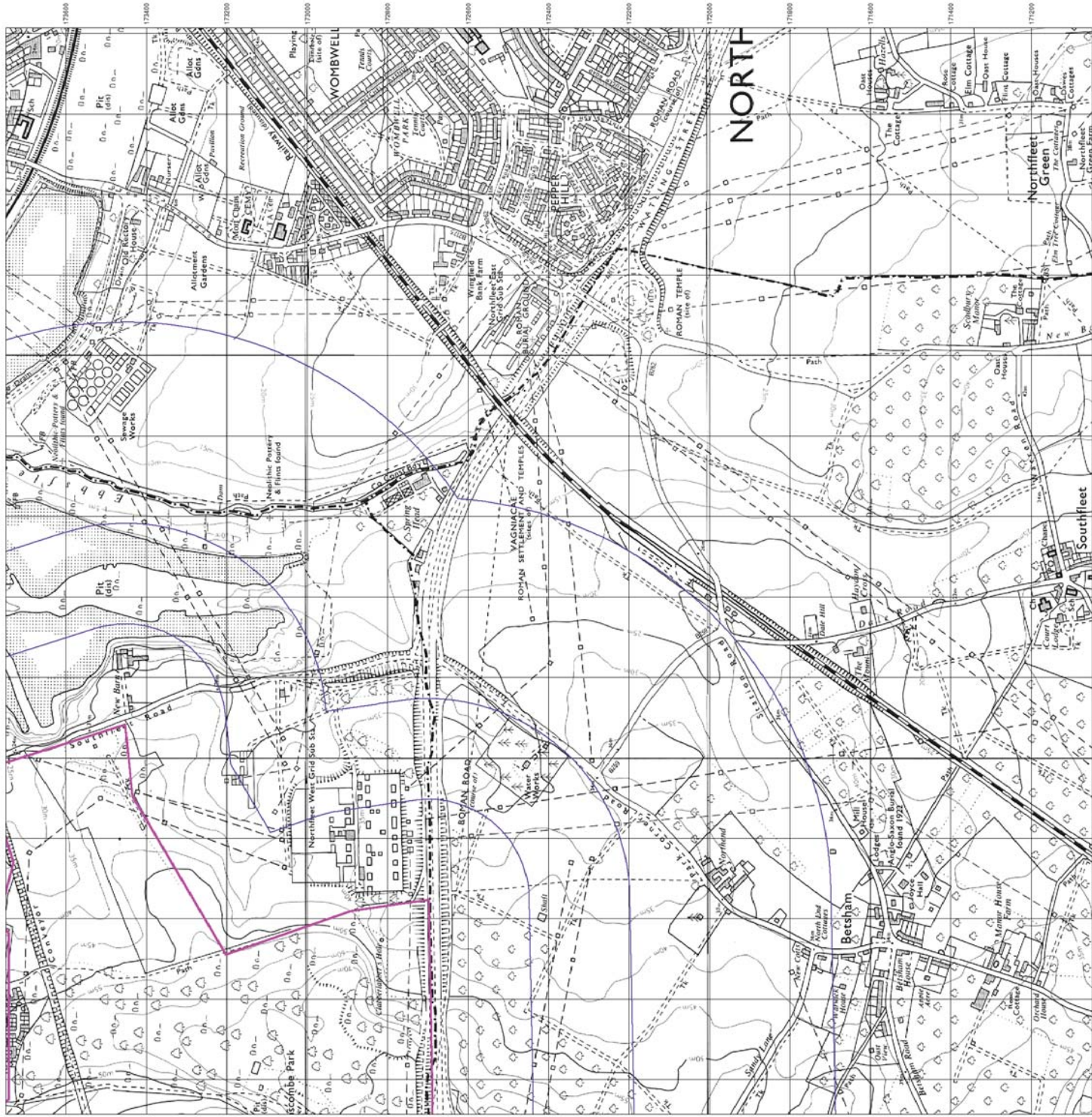


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



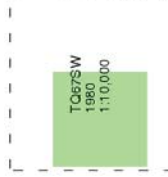


## Ordnance Survey Plan Published 1980

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:10,000 scale maps were published. These maps were used to update the 1:10,000 maps. The published data is then the data as it was some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice B

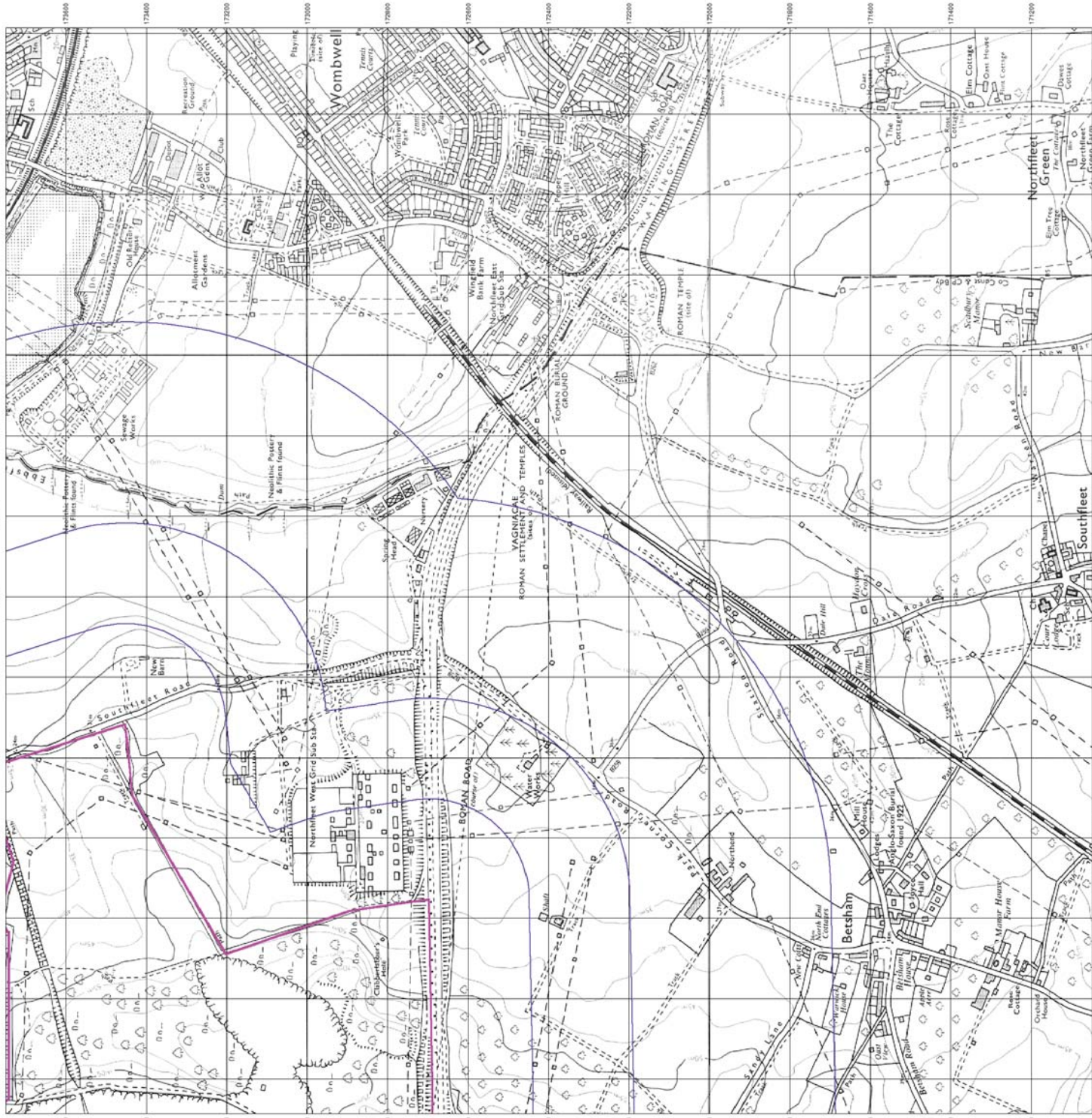


### Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



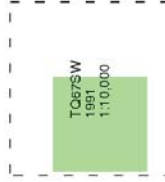


## Ordnance Survey Plan Published 1991

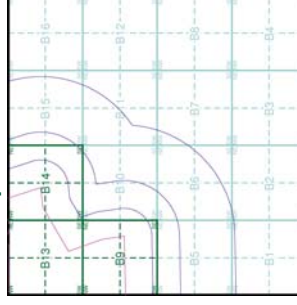
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, Warley and Scotland in the 1940's. In 1954, the Ordnance Survey published the first 1:10,000 scale maps. These maps were used to update the 1:10,000 scale maps. The published data from these maps often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice B



### Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





## 10k Raster Mapping

Published 1999

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are updated from aerial data which is used to produce maps on a grid of 100m squares. The data is highly detailed showing buildings, roads, and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)

TQ675W  
1999  
1:10,000

### Historical Map - Slice B

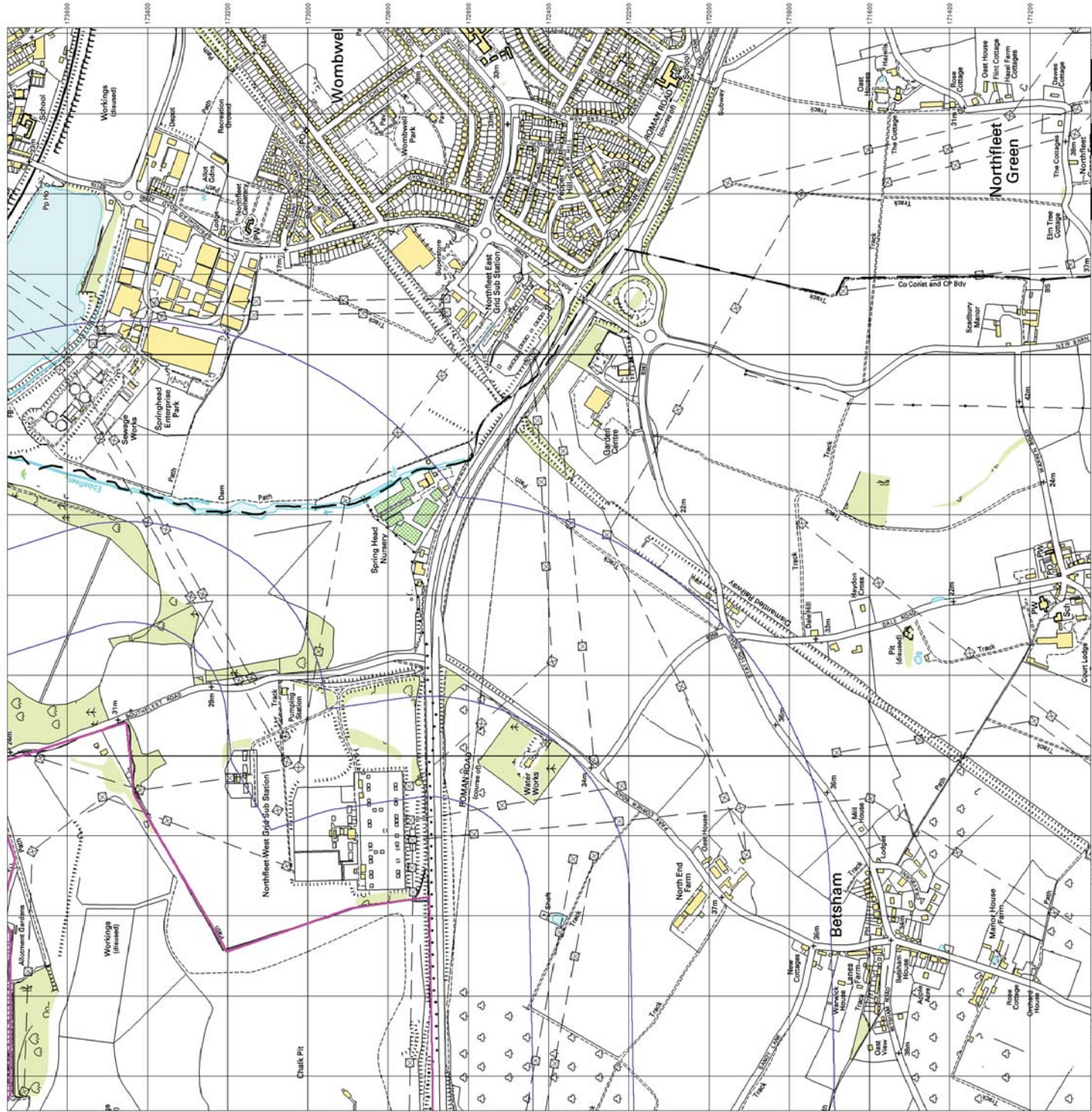


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





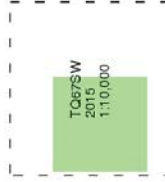
## Street View

Published 2015

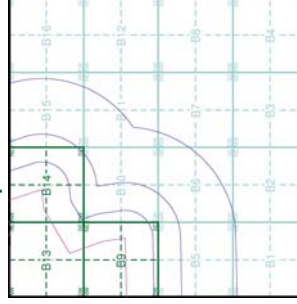
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

## Map Name(s) and Date(s)



## Street View Map - Slice B

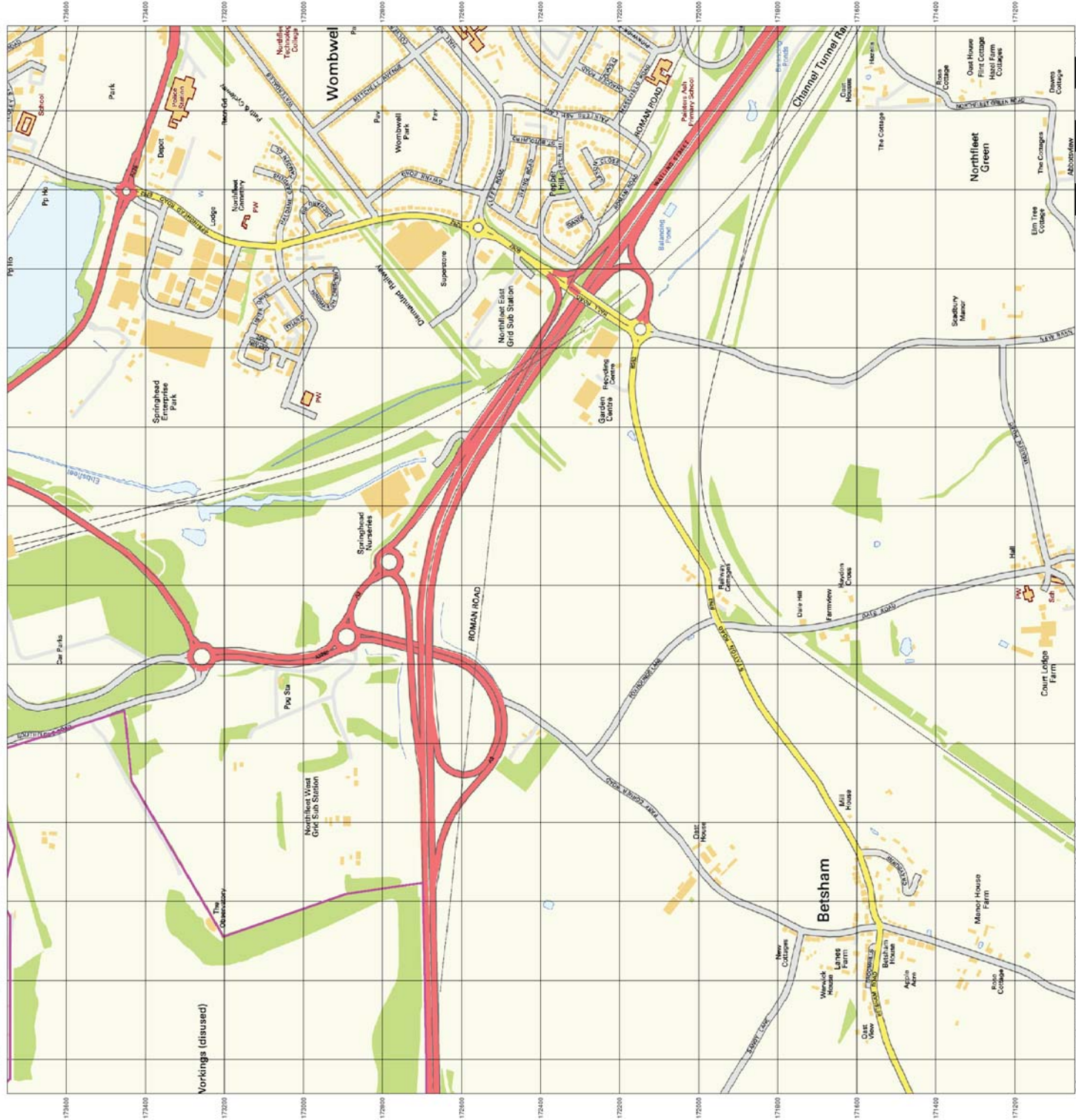


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 25012/00  
National Grid Reference: 560950, 172840  
Site: B  
Site Area (Ha): 272.38  
Search Buffer (m): 1000

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



# Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Kent                           | 1:2,500 | 1879 - 1882 | 2  |
| Kent                           | 1:2,500 | 1896 - 1897 | 3  |
| Kent                           | 1:2,500 | 1909        | 4  |
| Kent                           | 1:2,500 | 1938        | 5  |
| Ordnance Survey Plan           | 1:2,500 | 1961 - 1962 | 6  |
| Ordnance Survey Plan           | 1:2,500 | 1968 - 1970 | 7  |
| Additional SIMs                | 1:2,500 | 1978 - 1987 | 8  |
| Ordnance Survey Plan           | 1:2,500 | 1986        | 9  |
| Large-Scale National Grid Data | 1:2,500 | 1992        | 10 |
| Large-Scale National Grid Data | 1:2,500 | 1993        | 11 |
| Large-Scale National Grid Data | 1:2,500 | 1995        | 12 |

## Large-Scale National Grid Data 1:2,500 and 1:1,250

|        |     |       |      |          |                    |                                |                                     |         |      |                |                 |                         |                       |                               |                   |          |         |         |         |         |             |            |      |            |    |         |         |     |    |    |       |   |    |    |    |    |                |          |        |     |    |    |       |            |     |   |
|--------|-----|-------|------|----------|--------------------|--------------------------------|-------------------------------------|---------|------|----------------|-----------------|-------------------------|-----------------------|-------------------------------|-------------------|----------|---------|---------|---------|---------|-------------|------------|------|------------|----|---------|---------|-----|----|----|-------|---|----|----|----|----|----------------|----------|--------|-----|----|----|-------|------------|-----|---|
|        |     |       |      |          |                    |                                |                                     |         |      |                |                 |                         |                       |                               |                   |          |         |         |         |         |             |            |      |            |    |         |         |     |    |    |       |   |    |    |    |    |                |          |        |     |    |    |       |            |     |   |
| Slopes | Top | Cliff | Rock | Boulders | Positioned Boulder | Non-Coniferous Tree (surveyed) | Non-Coniferous Trees (not surveyed) | Orchard | Tree | Coppice, Osier | Rough Grassland | Direction of water flow | Triangulation Station | Electricity Transmission Line | Electricity Pylon | Barracks | Battery | Cemetry | Chimney | Cistern | Disamtd Rly | El Gen Sta | El P | El Sub Sta | FB | Fm/D Fm | Gas Gov | GVC | GP | MH | MP MS | P | PO | PC | Pp | PW | Sewage Ppg Sta | SB, S Br | SP, SL | Spr | Tk | Tr | Wd Pp | Wp Pt, W/T | Wks | W |

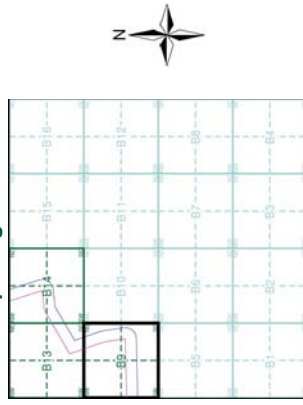
## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

|                                        |                                      |      |          |        |     |                 |         |                                |                                     |         |      |                |                 |                         |            |                       |                   |            |                        |                |         |                   |                   |             |            |                      |                |         |                           |                    |   |    |    |    |    |          |        |     |               |                    |                     |        |            |   |           |
|----------------------------------------|--------------------------------------|------|----------|--------|-----|-----------------|---------|--------------------------------|-------------------------------------|---------|------|----------------|-----------------|-------------------------|------------|-----------------------|-------------------|------------|------------------------|----------------|---------|-------------------|-------------------|-------------|------------|----------------------|----------------|---------|---------------------------|--------------------|---|----|----|----|----|----------|--------|-----|---------------|--------------------|---------------------|--------|------------|---|-----------|
|                                        |                                      |      |          |        |     |                 |         |                                |                                     |         |      |                |                 |                         |            |                       |                   |            |                        |                |         |                   |                   |             |            |                      |                |         |                           |                    |   |    |    |    |    |          |        |     |               |                    |                     |        |            |   |           |
| Inactive Quarry, Chalk Pit or Clay Pit | Active Quarry, Chalk Pit or Clay Pit | Rock | Boulders | Slopes | Top | Roofed Building | Archway | Non-Coniferous Tree (surveyed) | Non-Coniferous Trees (not surveyed) | Orchard | Tree | Coppice, Osier | Rough Grassland | Direction of water flow | Bench Mark | Triangulation Station | Electricity Pylon | Beer House | Boundary Post or Stone | Capstan, Crane | Chimney | Drinking Fountain | Fire Alarm Pillar | Foot Bridge | Guide Post | Hydrant or Hydraulic | Level Crossing | Manhole | Mile Post or Mooring Post | Normal Tidal Limit | P | PO | PC | PH | Pp | SB, S Br | SP, SL | Spr | Tank or Track | Telephone Call Box | Telephone Call Post | Trough | Wp Pt, W/T | W | Wind Pump |

## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

|        |            |         |                 |       |       |       |      |            |     |       |               |            |                             |                       |         |            |                       |                |                         |                          |                                |                                |                                               |                                   |                                    |                        |             |                   |             |           |                     |            |                      |                 |      |             |        |        |                    |        |      |
|--------|------------|---------|-----------------|-------|-------|-------|------|------------|-----|-------|---------------|------------|-----------------------------|-----------------------|---------|------------|-----------------------|----------------|-------------------------|--------------------------|--------------------------------|--------------------------------|-----------------------------------------------|-----------------------------------|------------------------------------|------------------------|-------------|-------------------|-------------|-----------|---------------------|------------|----------------------|-----------------|------|-------------|--------|--------|--------------------|--------|------|
|        |            |         |                 |       |       |       |      |            |     |       |               |            |                             |                       |         |            |                       |                |                         |                          |                                |                                |                                               |                                   |                                    |                        |             |                   |             |           |                     |            |                      |                 |      |             |        |        |                    |        |      |
| Quarry | Gravel Pit | Shingle | Sloping Masonry | Marsh | Reeds | Furze | Wood | Mixed Wood | Fir | Ferry | Trig. Station | Bench Mark | Arrow denotes flow of water | Antiquities (site of) | Cutting | Enbankment | Road crossing Railway | Level Crossing | Road over single stream | Road over River or Canal | County Boundary (Geographical) | County & Civil Parish Boundary | Administrative County & Civil Parish Boundary | County Borough Boundary (England) | County Borough Boundary (Scotland) | Boundary Post or Stone | Bridle Road | Electricity Pylon | Foot Bridge | Foot Path | Guide Post or Board | Mile Stone | Mooring Post or Ring | Police Call Box | Pump | Signal Post | Sluice | Spring | Telephone Call Box | Trough | Well |

## Historical Map - Segment B9



## Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

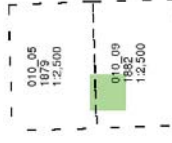
## Site Details

Barton Wilmore, The Observatory, Southfleet Road, SWANSCOMBE, Kent, DA10 0DF

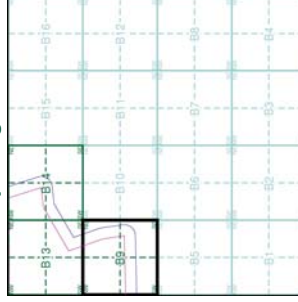


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. It is 1854 that the 1:2,500 scale maps were first published, and it was by 1886 that the whole of what was considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment B9**

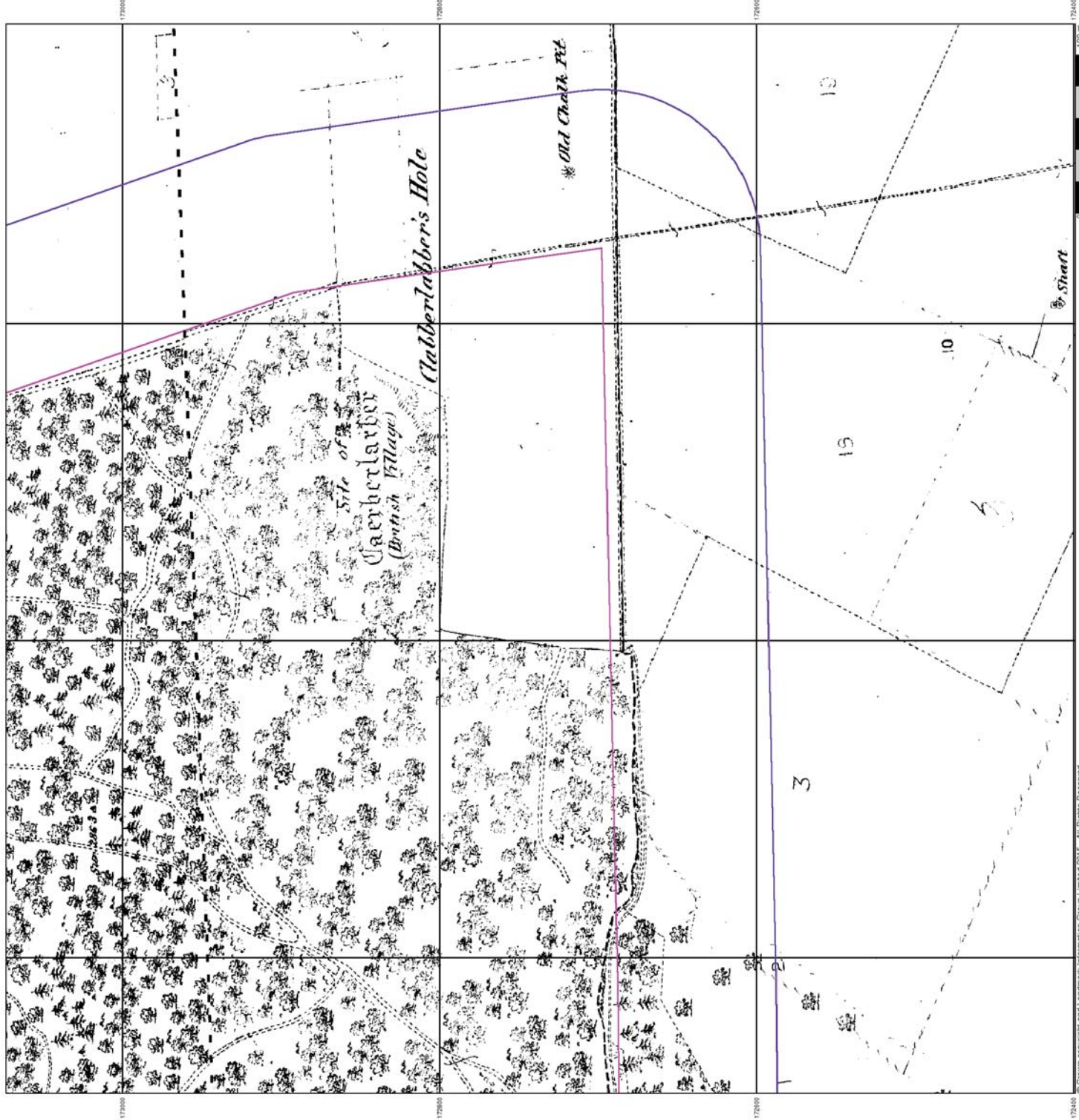


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Site: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

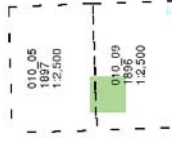
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



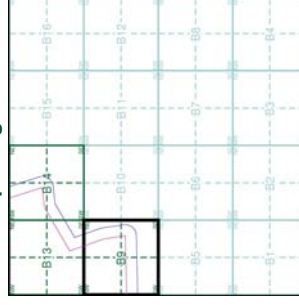


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were produced in the 1840s to 1864 at a scale of 1:2,500. The maps were produced by the Ordnance Survey, which created the whole of what is now covered by the published parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment B9**

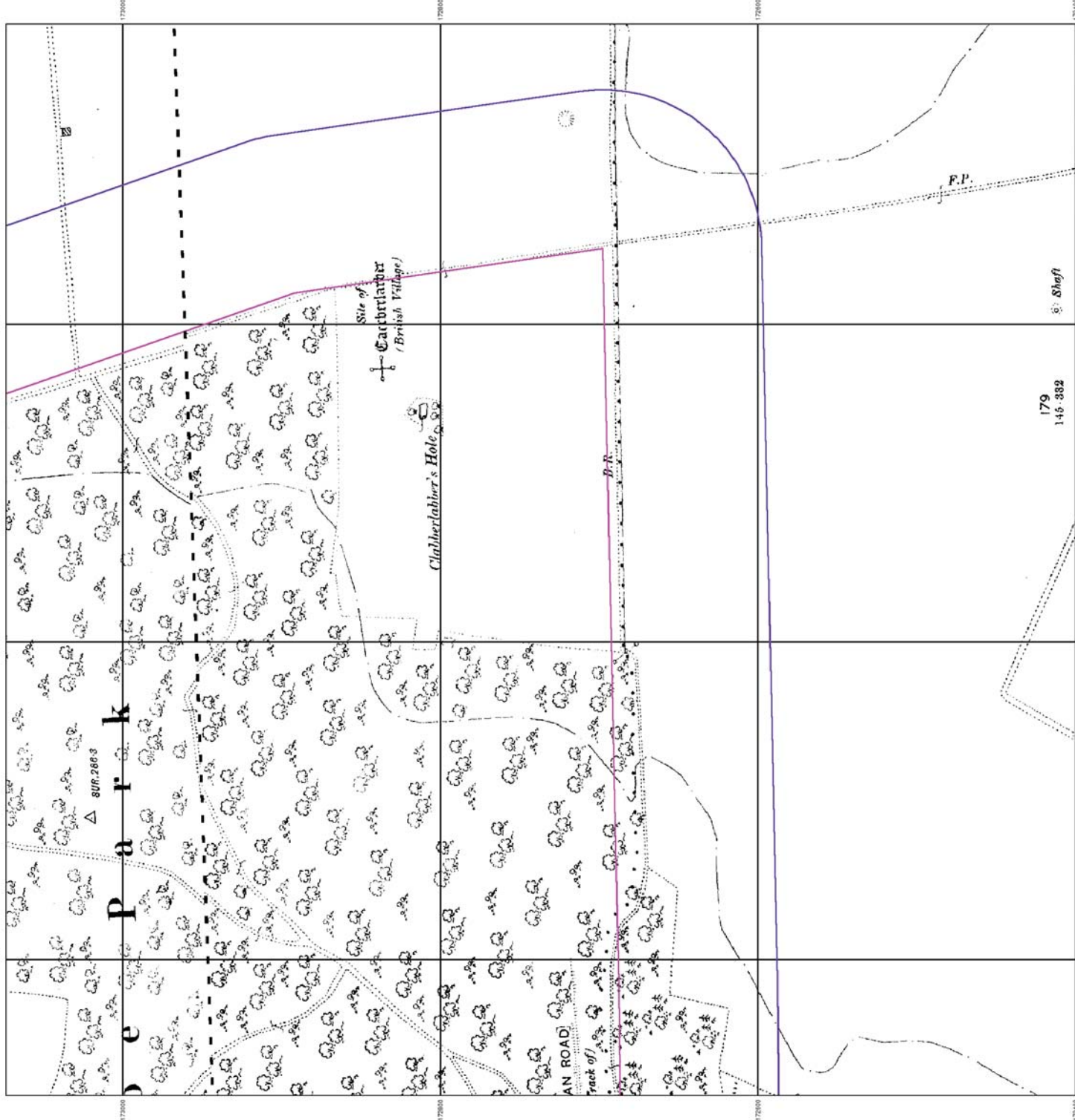


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

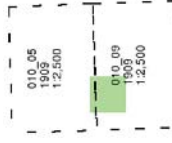
**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

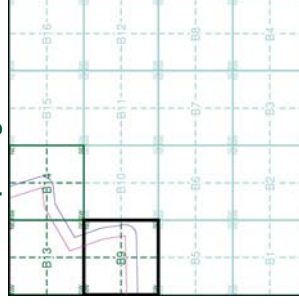


The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. It is 1854 the first of these maps was published, inspired by the Ordnance Survey map of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment B9**

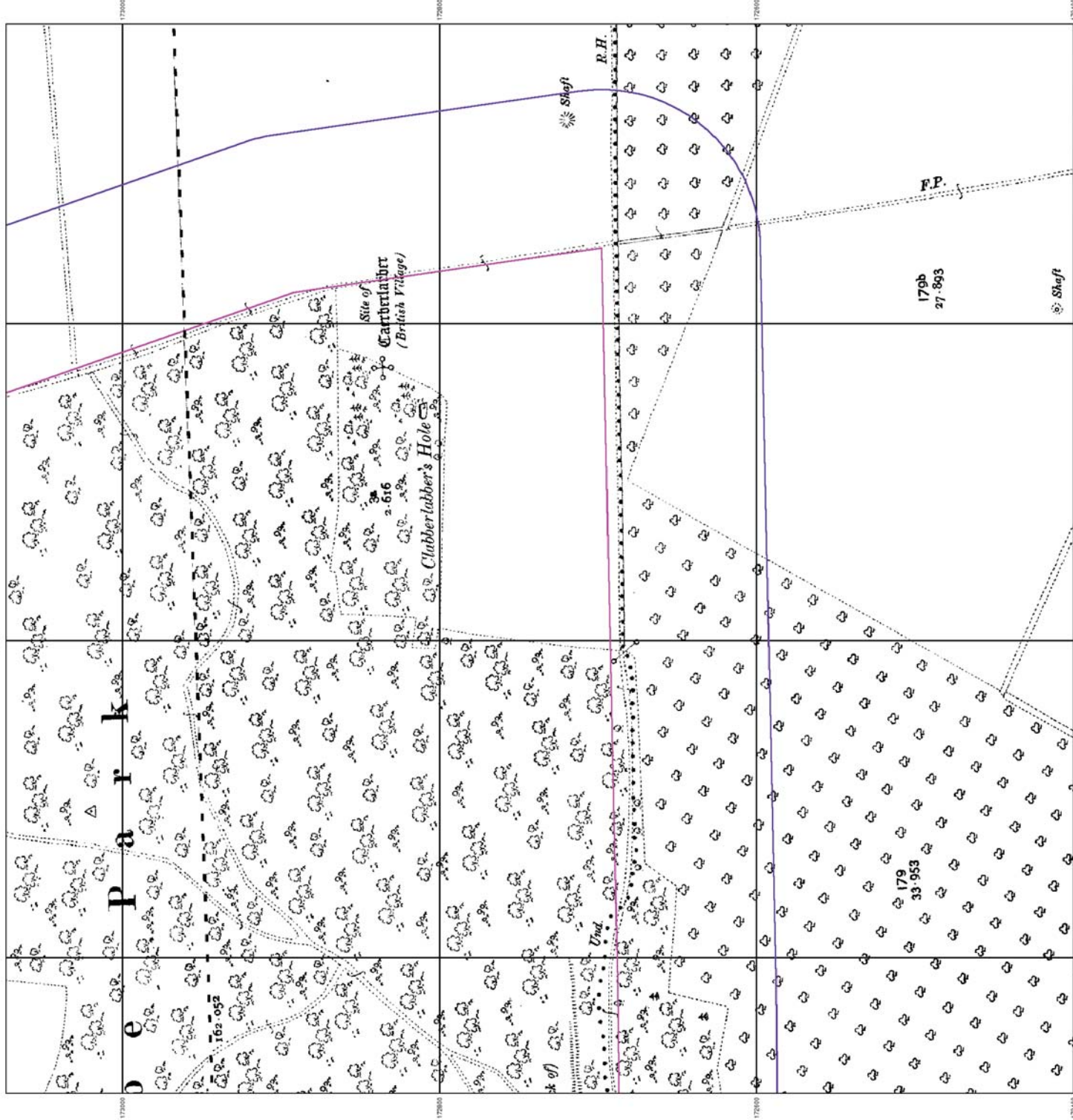


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

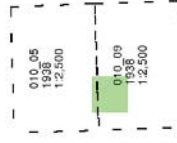
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



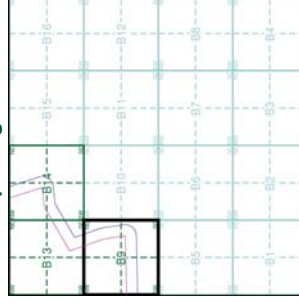


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:250 000 scale was adopted for mapping urban areas and by 1986 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in cutting areas.

## Map Name(s) and Date(s)



## Historical Map - Segment B9



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122100      |
| National Grid Reference: | 560950, 172840 |
| Slice:                   | B              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

## Site Details

**Site Details**  
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Ordnance Survey Plan

Published 1961 - 1962

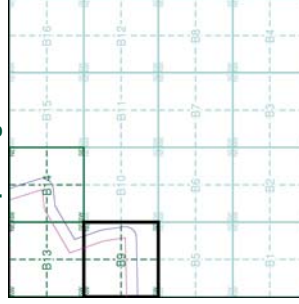
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the Ordnance Survey was established and the maps were surveyed by 1856. It is noted that the whole of what was covered by the original parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TS6073 | 1961 | 1:2,500 |
| TS6072 | 1962 | 1:2,500 |

### Historical Map - Segment B9

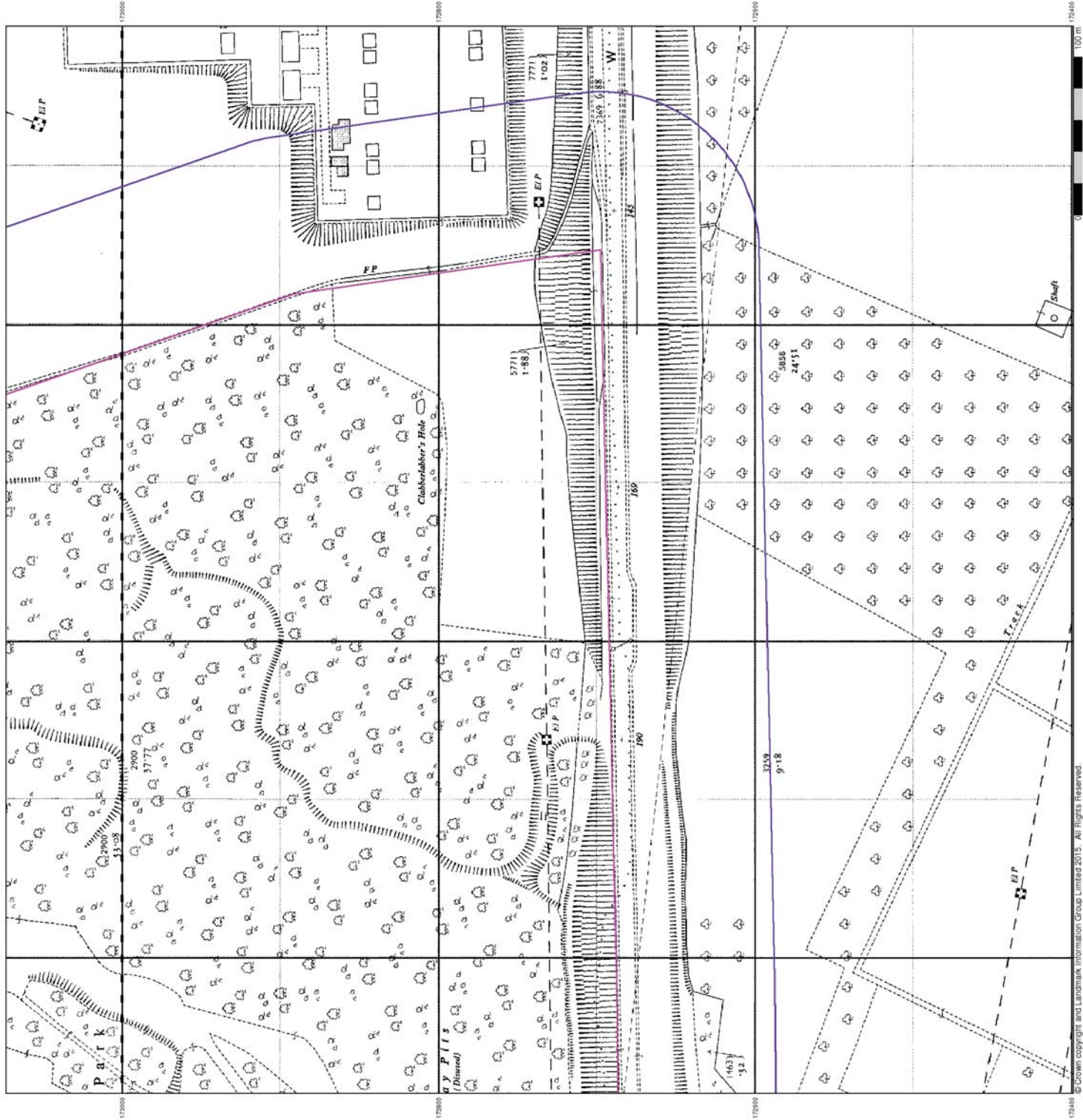


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF



## Ordnance Survey Plan

Published 1968 - 1970

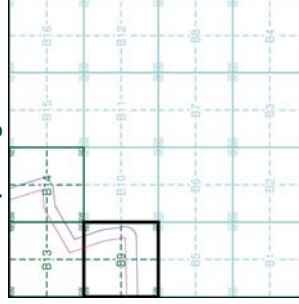
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale in the 1940s and 1950s. The maps were then reissued at a 1:2,500 scale in 1968. It is important to note that the maps were compiled from the original parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TS6073 | 1970 | 1:2,500 |
| TS6072 | 1968 | 1:2,500 |

### Historical Map - Segment B9



### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





## Additional SIMs

Published 1978 - 1987

Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further editions of mapping which were produced and published in 1978, 1984 and 1987. They contain details of buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

|         |      |         |
|---------|------|---------|
| TS06073 | 1978 | 1:2,500 |
| TS06072 | 1987 | 1:2,500 |

## Historical Map - Segment B9

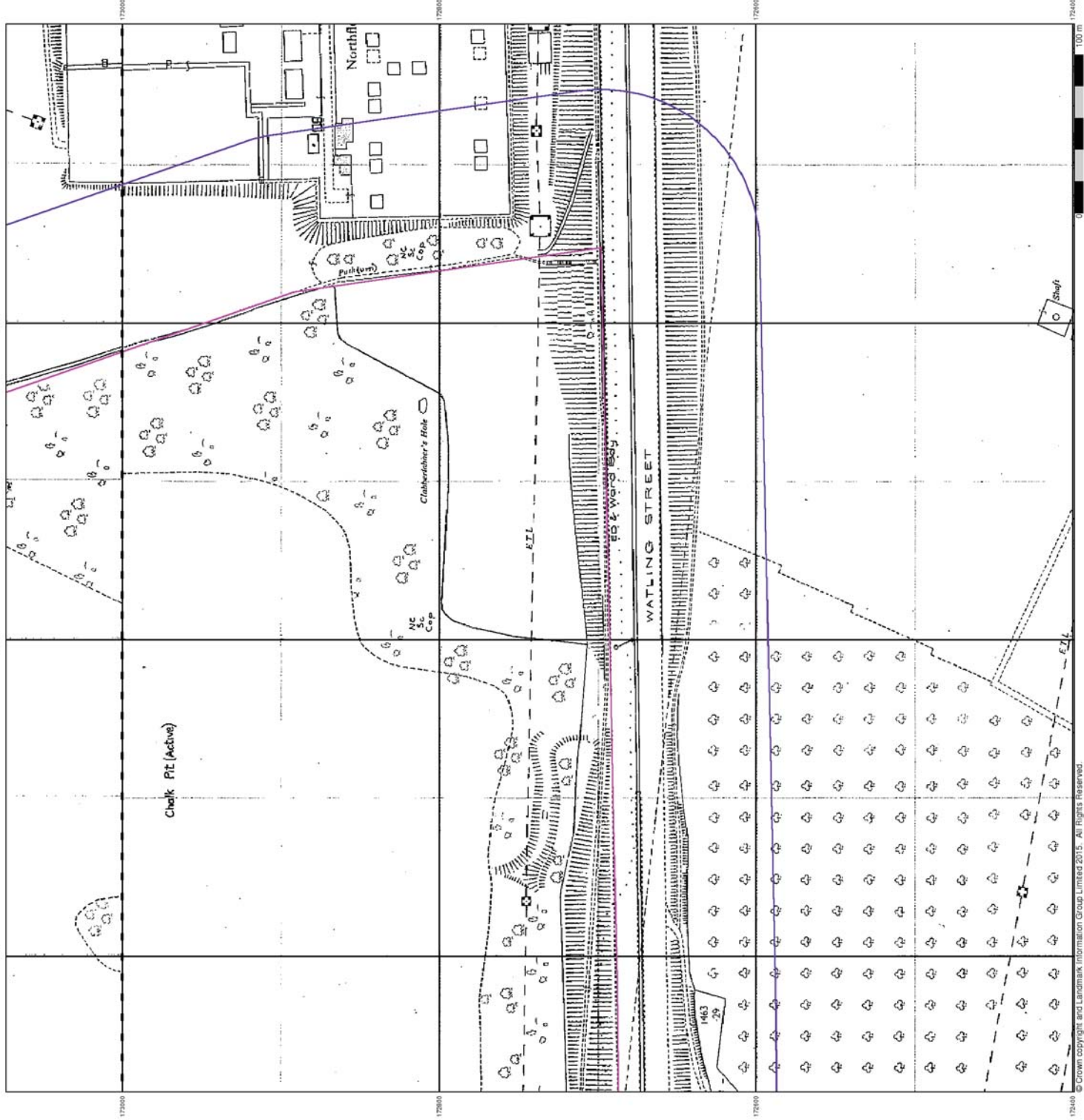


## Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF





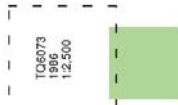
## Ordinance Survey Map

Published 1986

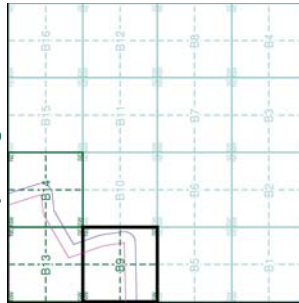
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s to 1984 at the 1:2,500 scale. These maps were produced by the Ordnance Survey and the Ordnance Survey of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B9



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Large-Scale National Grid Data

Published 1992

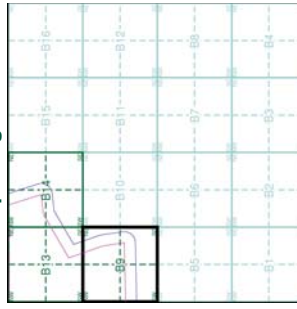
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Great Britain) in 1992, and continued to be produced until 1999. These maps were produced by digitising the original maps and provide detailed information on roads, houses and other built features, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:12,500 scales.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TC6073 | 1992 | 1:2,500 |
| TC6072 | 1992 | 1:2,500 |

### Historical Map - Segment B9



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9652  
Fax: 0844 844 9651  
Web: www.envirocheck.co.uk

## Large-Scale National Grid Data

Published 1993

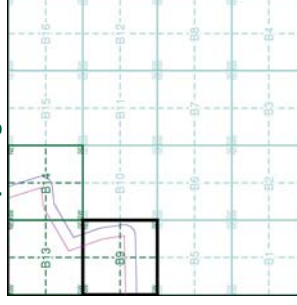
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were the original mapping at a scale of 1:2,500, and provide detailed information on houses and other topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| TC6073 | 1993 | 1:2,500 |
| TC6072 | 1993 | 1:2,500 |

### Historical Map - Segment B9

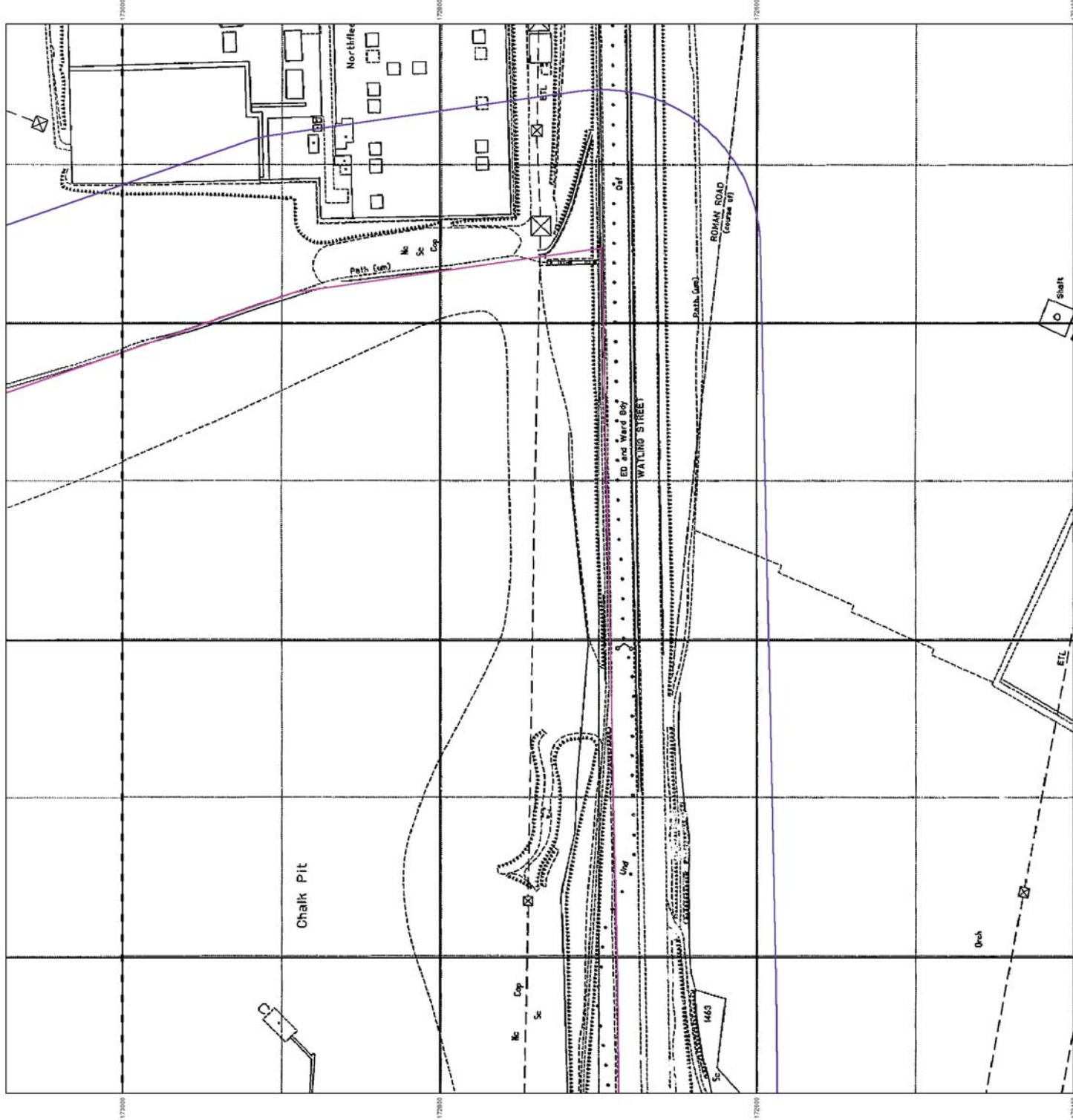


### Order Details

Order Number: 89304408\_1\_1  
 Customer Ref: 250122/00  
 National Grid Reference: 560950, 172840  
 Slice: B  
 Site Area (Ha): 272.38  
 Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
 SWANSCOMBE, Kent, DA10 0DF







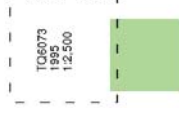
## Large-Scale National Grid Data

Published 1995

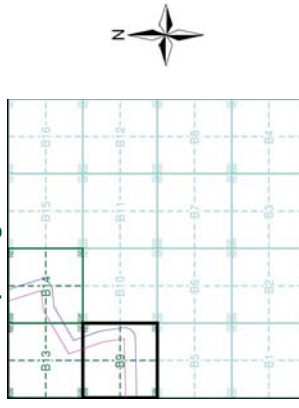
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the original digital mapping and so provide detailed information on houses and roads, but lack the less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment B9



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





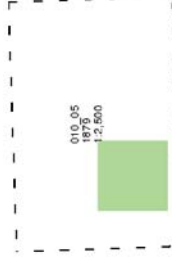
## Kent

### Published 1879

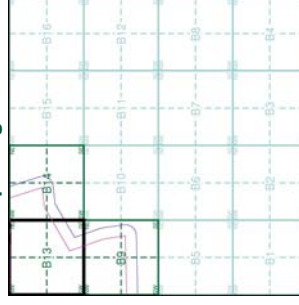
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were produced in the 1840s and 1850s. The maps were reproduced from the original maps by 1896. It is noted that the whole of what was covered by the original parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B13



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



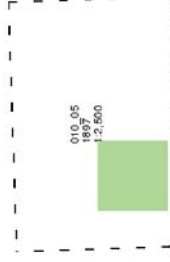
## Kent

### Published 1897

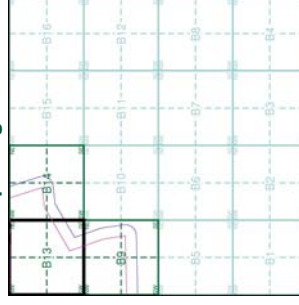
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the OS adopted the Cassini projection for its maps, which were based on the Cassini projection. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B13

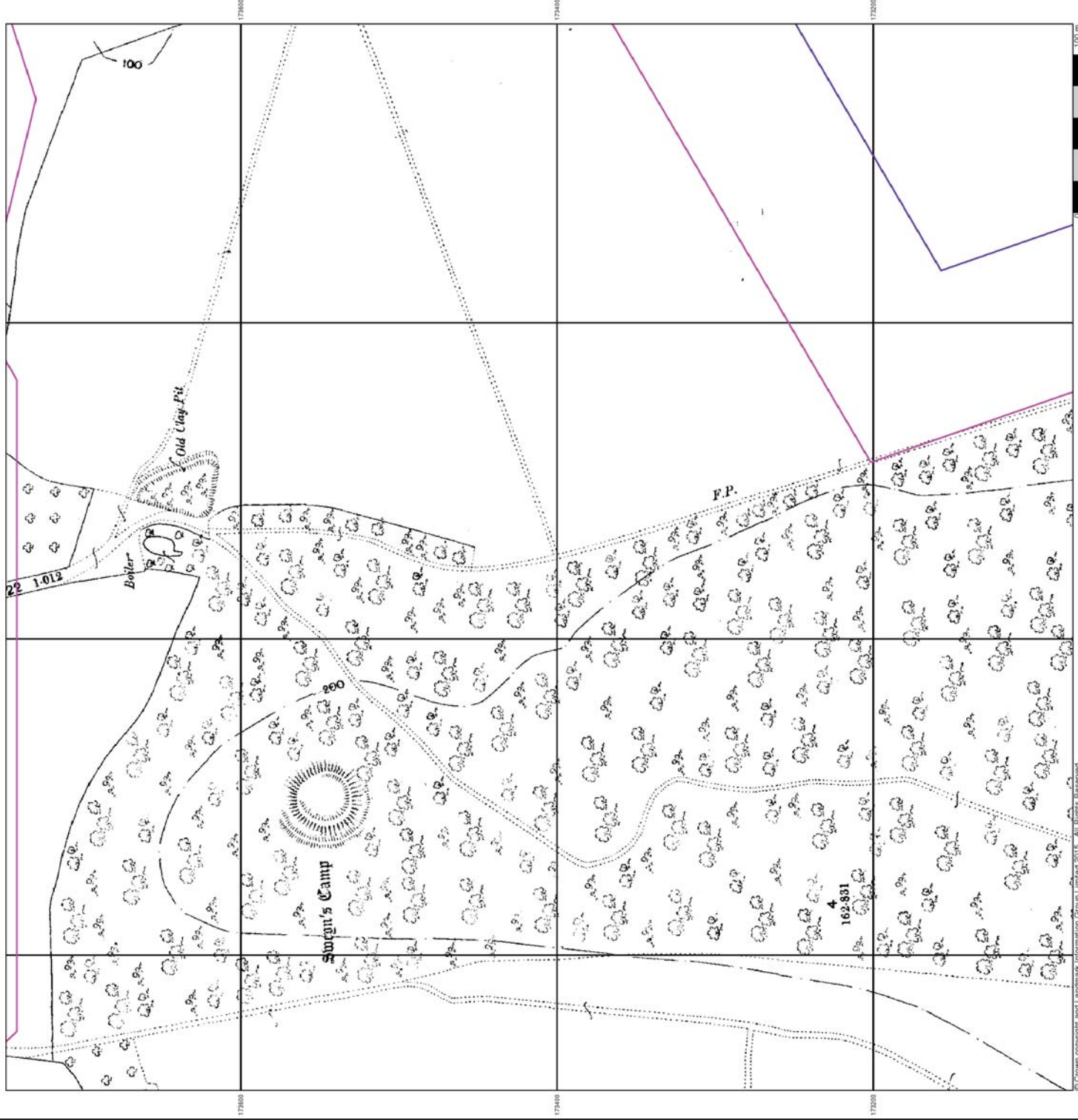


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

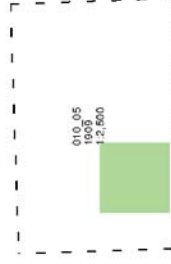
### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

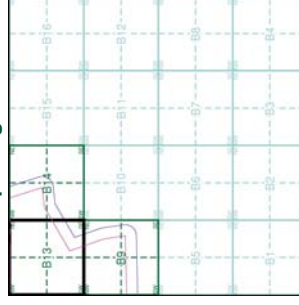


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were produced by the Ordnance Survey, which were based on the whole of what was then considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment B13**

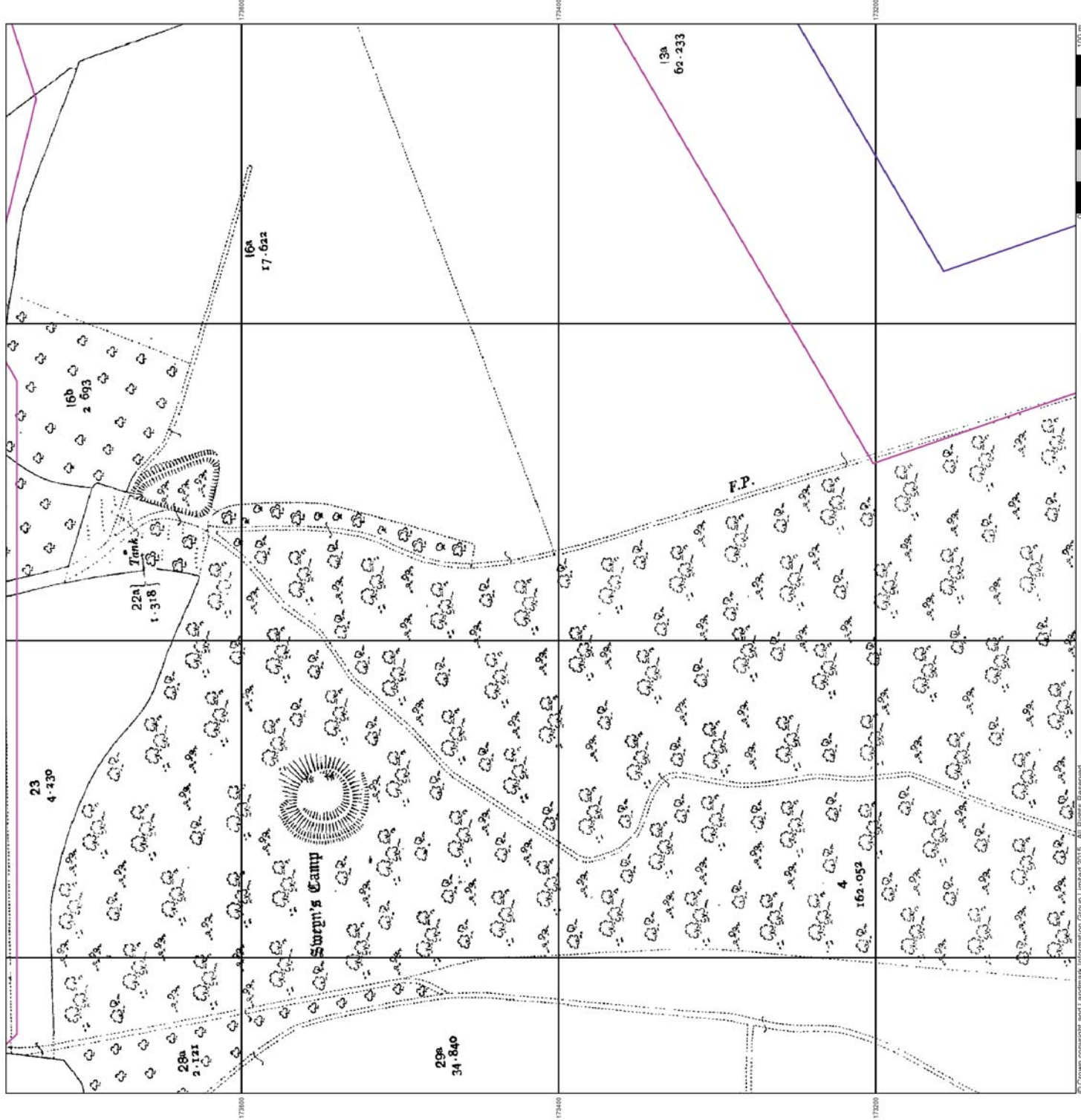


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

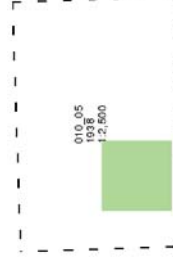
Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



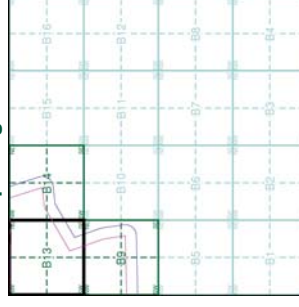


The historical maps shown were reproduced from maps predominantly held at the state adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in surveying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment B13



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 560950, 172840 |
| Slice:                   | B              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

## Site Details

**Site Details**  
Barton Willmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



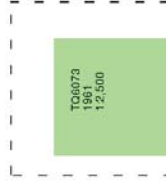
## Ordnance Survey Plan

Published 1961

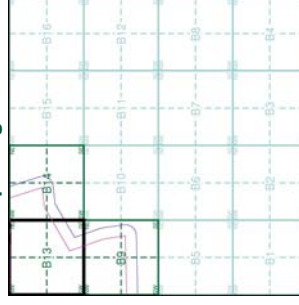
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a 1:2,500 scale for England, Wales and Scotland in the 1940s. In 1961, the Ordnance Survey revised the 1:2,500 scale maps and reissued them as the 1:2,500 scale maps. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment B13

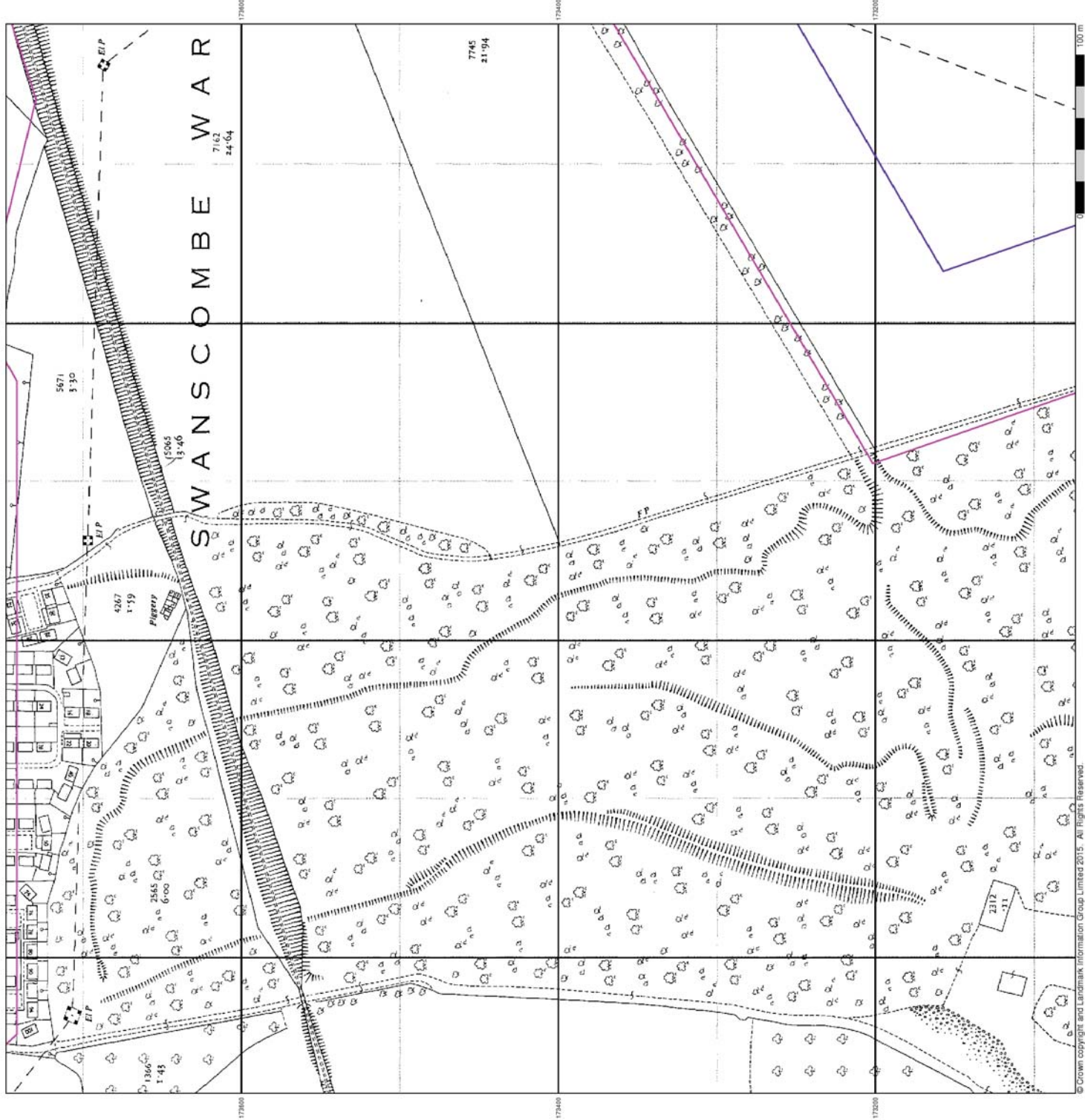


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF











## Ordinance Survey Map

Published 1986

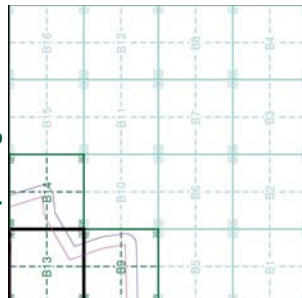
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. 1854 the 1:2,500 scale maps were replaced by the 1:2,500 scale maps. The 1:2,500 scale maps were replaced by the 1:2,500 scale maps. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B13

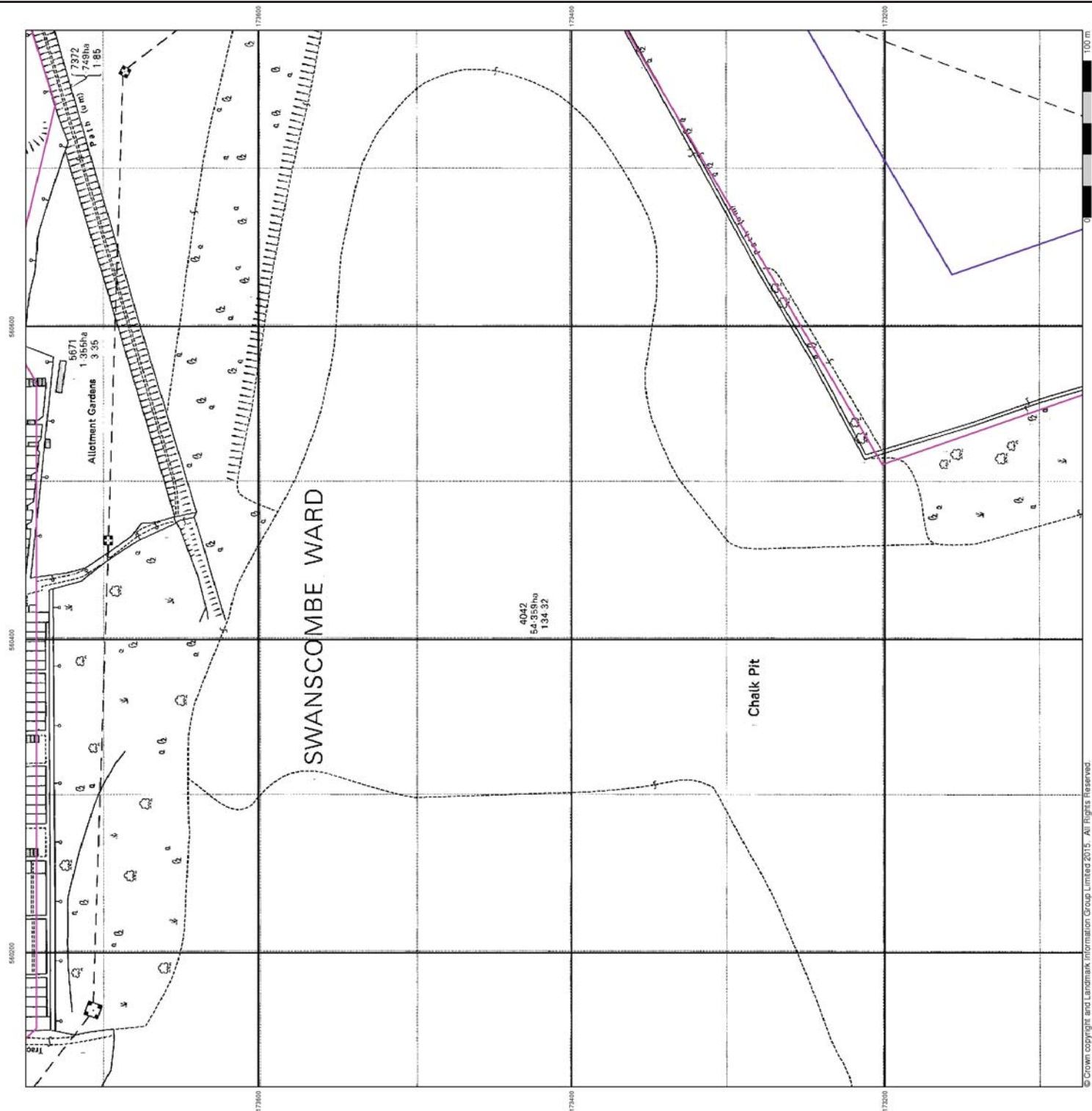


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





## Large-Scale National Grid Data

Published 1992

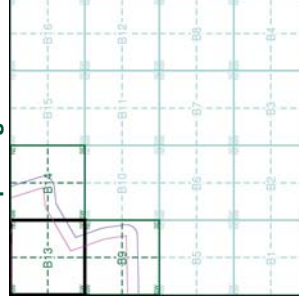
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survive the Storm' information on Microfilm) in 1992, and continued to be produced until 1999. These maps are the official mapping at a scale of 1:2,500 and provide detailed information on houses and other built-up areas, but lack topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment B13



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



## Large-Scale National Grid Data

Published 1993

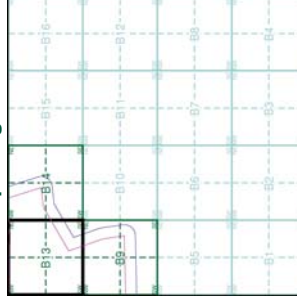
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey of the Information on Microfilm) in 1992, and continued to be produced until 1999. These maps are the official mapping of the National Grid and provide detailed information on the layout of the land, including all the topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment B13



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





# Large-Scale National Grid Data Published 1995

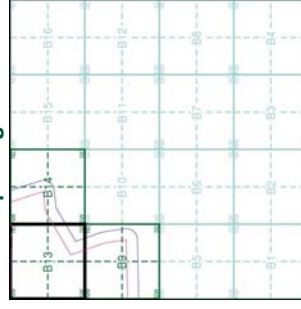
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Source Information on Microfilm') in 1992, and continued to be produced until 1999. These maps are the official mapping at a scale of 1:2,500, and provide detailed information on houses and other built-up areas, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment B13



## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

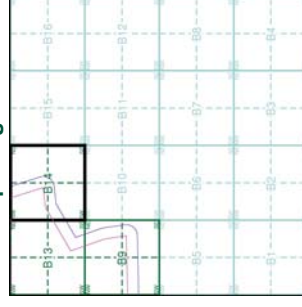


Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

### Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Kent                           | 1:2,500 | 1879        | 2  |
| Kent                           | 1:2,500 | 1897        | 3  |
| Kent                           | 1:2,500 | 1909        | 4  |
| Kent                           | 1:2,500 | 1938        | 5  |
| Ordinance Survey Plan          | 1:2,500 | 1961        | 6  |
| Ordinance Survey Plan          | 1:2,500 | 1970        | 7  |
| Additional SIMs                | 1:2,500 | 1978        | 8  |
| Ordinance Survey Plan          | 1:2,500 | 1986        | 9  |
| Large-Scale National Grid Data | 1:2,500 | 1992        | 10 |
| Large-Scale National Grid Data | 1:2,500 | 1993        | 11 |
| Large-Scale National Grid Data | 1:2,500 | 1993 - 1995 | 12 |

## Historical Map - Segment B14



## Order Details

**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 89304408_1_1   |
| Customer Ref:            | 250122/00      |
| National Grid Reference: | 560950, 172840 |
| Slice:                   | B              |
| Site Area (Ha):          | 272.38         |
| Search Buffer (m):       | 100            |

## Site Details

**Site Details**  
Barton Willmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

## Historical Mapping Legends

**Large-Scale National Grid Data 1:2,500 and 1:1,250**

**Ordinance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information**  
1:2,500 and 1:1,250

| Slopes                                                                                  |                                     | Top            |                                 |
|-----------------------------------------------------------------------------------------|-------------------------------------|----------------|---------------------------------|
|                                                                                         | Cliff                               |                | Rock (scattered)                |
|                                                                                         | Boulders                            |                | Boulders (scattered)            |
|                                                                                         | Positioned Boulder                  |                | Scree                           |
|                                                                                         | Non-Coniferous Tree (surveyed)      |                | Coniferous Tree (surveyed)      |
|                                                                                         | Non-Coniferous Trees (not surveyed) |                | Coniferous Trees (not surveyed) |
|                                                                                         | Orchard Tree                        |                | Scrub                           |
|                                                                                         | Copice, Oslar                       |                | Reeds                           |
|                                                                                         | Rough Grassland                     |                | Heath                           |
|                                                                                         | Direction of water flow             |                | Triangulation Station           |
|                                                                                         | Electricity Transmission Line       |                | Electricity Pylon               |
|                                                                                         | Bench Mark                          |                | Buildings with Building Seed    |
|                                                                                         | Roofed Building                     |                | Glazed Roof Building            |
| Civil parish/community boundary                                                         |                                     |                |                                 |
| District boundary                                                                       |                                     |                |                                 |
| County boundary                                                                         |                                     |                |                                 |
| Boundary post/stone                                                                     |                                     |                |                                 |
| Boundary merling symbol (note: these always appear in opposed pairs or groups of three) |                                     |                |                                 |
| Bks                                                                                     | Bar racks                           | P              | Pillar, Pole or Post            |
| Bry                                                                                     | Battery                             | PO             | Post Office                     |
| Cem                                                                                     | Cemetery                            | PC             | Public Convenience              |
| Chy                                                                                     | Chimney                             | Pc             | Pump                            |
| Cis                                                                                     | Cistern                             | Ppg Sta        | Pumping Station                 |
| Dismtd Rly                                                                              | Dismantled Railway                  | PW             | Place of Worship                |
| El Gen Sta                                                                              | Electricity Generating Station      | Sewage Ppg Sta | Sewage Pumping Station          |
| El P                                                                                    | Electricity Pole, Pillar            | SB, S Br       | Signal Box or Bridge            |
| El Sub Sta                                                                              | Electricity Sub Station             | SP, SL         | Signal Post or Light            |
| FB                                                                                      | Filter Bed                          | Spr            | Spring                          |
| Fn / D Fn                                                                               | Fountain / Drinking Fm              | Tk             | Tank or Tank                    |
| Gas Gov                                                                                 | Gas Valve Compound                  | Tr             | Trough                          |
| GVC                                                                                     | Gas Governor                        | Wd Pp          | Wind Pump                       |
| GP                                                                                      | Guide Post                          | Wt Pk, Wt T    | Water Point, Water Tap          |
| MH                                                                                      | Manhole                             | Wks            | Works (building or area)        |
| MO, MO                                                                                  | Mole, Mole                          | Wks            | Works (building or area)        |

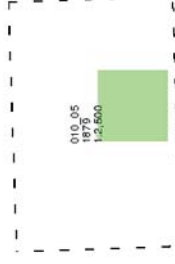
| Geological Features                          |                                            | Topography                     |                       | Vegetation                            |                                        | Structures                                             |                        | Boundaries             |                            | Other Features       |                                |
|----------------------------------------------|--------------------------------------------|--------------------------------|-----------------------|---------------------------------------|----------------------------------------|--------------------------------------------------------|------------------------|------------------------|----------------------------|----------------------|--------------------------------|
| Inactive Quarry,<br>Chalk Pit or<br>Clay Pit | Active Quarry,<br>Chalk Pit or<br>Clay Pit | Rock                           | Boulders              | Non-Coniferous Tree<br>(surveyed)     | Non-Coniferous Trees<br>(not surveyed) | Orchard<br>Tree                                        | Copple,<br>Osler       | Rough<br>Grassland     | Direction<br>of water flow | Cave<br>Entrance     | Electricity Transmission Line  |
| Roofed Building                              | Glazed Roof<br>Building                    | Sloping<br>Masonry             | Archway               | Coniferous Tree<br>(surveyed)         | Coniferous Trees<br>(not surveyed)     | Bracken                                                | Marsh,<br>Saltings     | Culvert                | Antiquity<br>(site of)     | Electricity<br>Pylon | County Boundary (Geographical) |
| Cliff                                        | Slopes                                     | County & Civil Parish Boundary | Civil Parish Boundary | Admin. County or County Bor. Boundary | London Borough Boundary                | Symbol marking point where boundary<br>merging changes | Beer House             | Boundary Post or Stone | Capstan Crane              | Chimney              | Drinking Fountain              |
| Electricity Pillar or Post                   | Fire Alarm Pillar                          | Foot Bridge                    | Guide Post            | Hydrant or Hydraulic<br>Manhole       | Level Crossing                         | Mail Post or Meeting Post                              | Mile Stone             | Normal Tidal Limit     | Pillar, Pole or Post       | Post Office          | Public Convenience             |
| Pump                                         | Signal Box or Bridge                       | SP, SL                         | Spring                | Tank or Track                         | Telephone Call Box                     | Trough                                                 | Water Point, Water Tap | Well                   | Wind Pump                  |                      |                                |

**Ordinance Survey County Series and  
Ordinance Survey Plan 1:2,500**

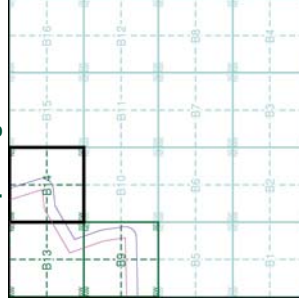
|                                                                                       |                                                                                       |                                                                                     |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |    |  |
|    |    |  |
|    |    |                                                                                     |
|    |    |  |
|    |    |  |
|    |    |  |
|    |    |  |
|    |    |  |
|    |    |  |
|    |    |  |
|    |    |                                                                                     |
|    |    |                                                                                     |
|    |    |  |
|    |    |  |
|   |   |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |
|  |  |                                                                                     |

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. It is 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment B14**

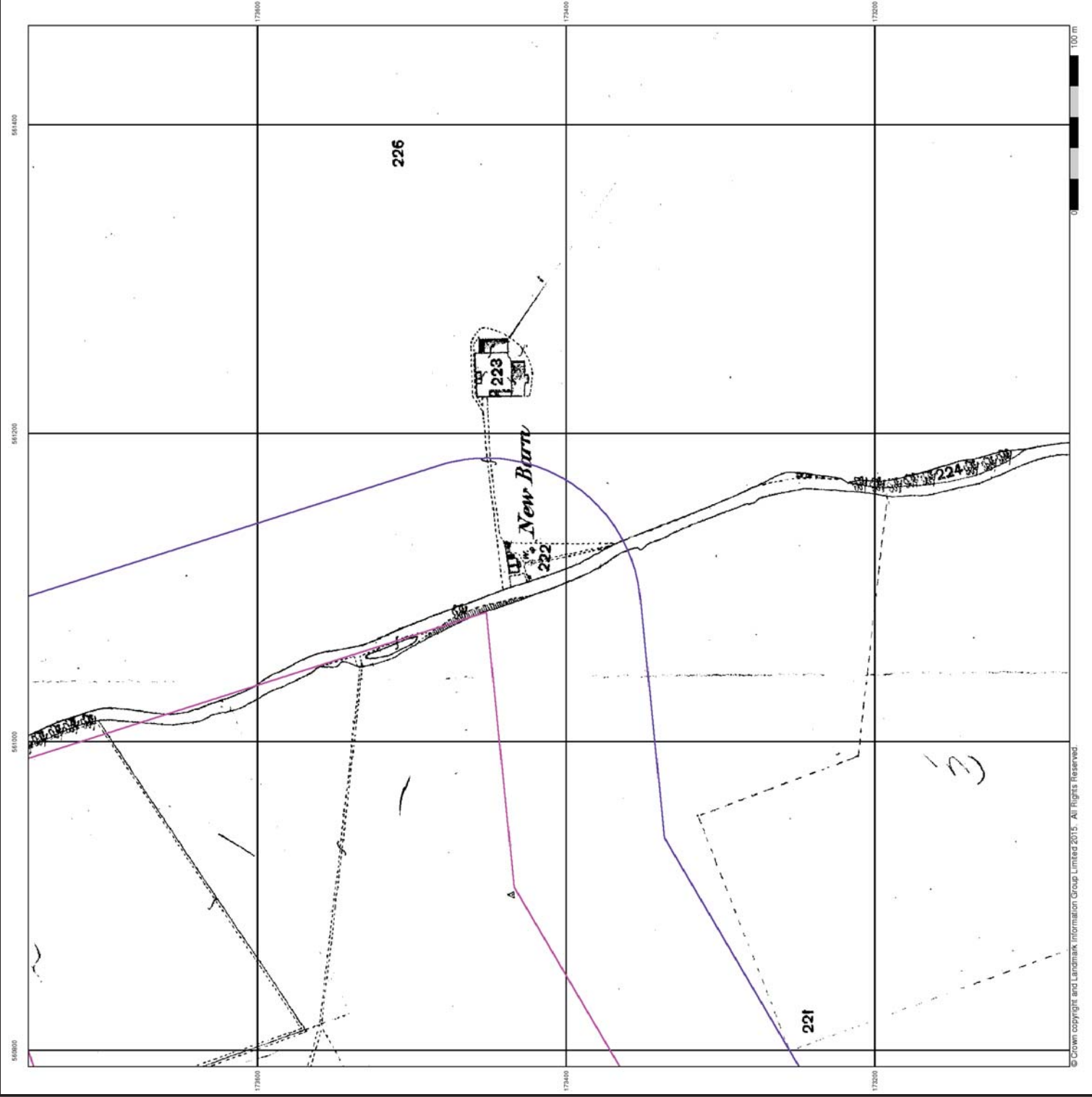


**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





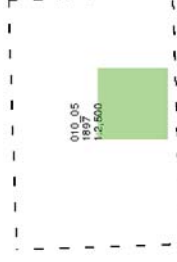
## Kent

Published 1897

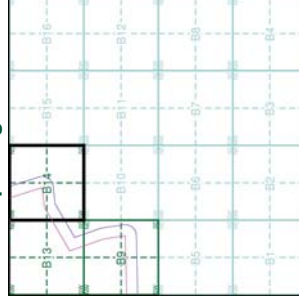
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were revised and reissued by the Ordnance Survey. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B14



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



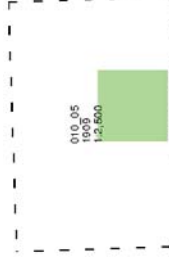
## Kent

### Published 1909

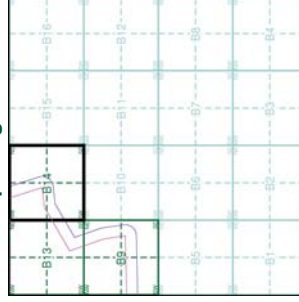
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. In 1854 the 1:2,500 scale maps were revised and updated to reflect changes in the landscape. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B14



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

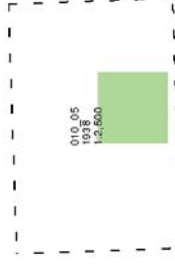
### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

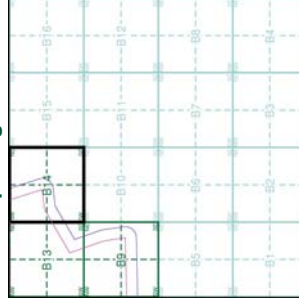


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were produced by the Ordnance Survey in 1938. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment B14**



**Order Details**

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

**Site Details**

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



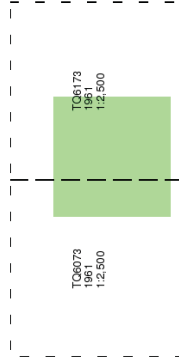


# Ordnance Survey Plan Published 1961

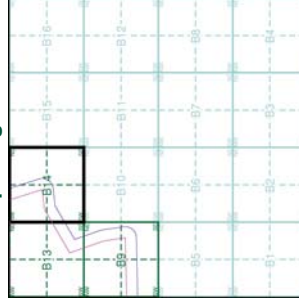
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were first published in 1864 and were revised in 1961. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment B14

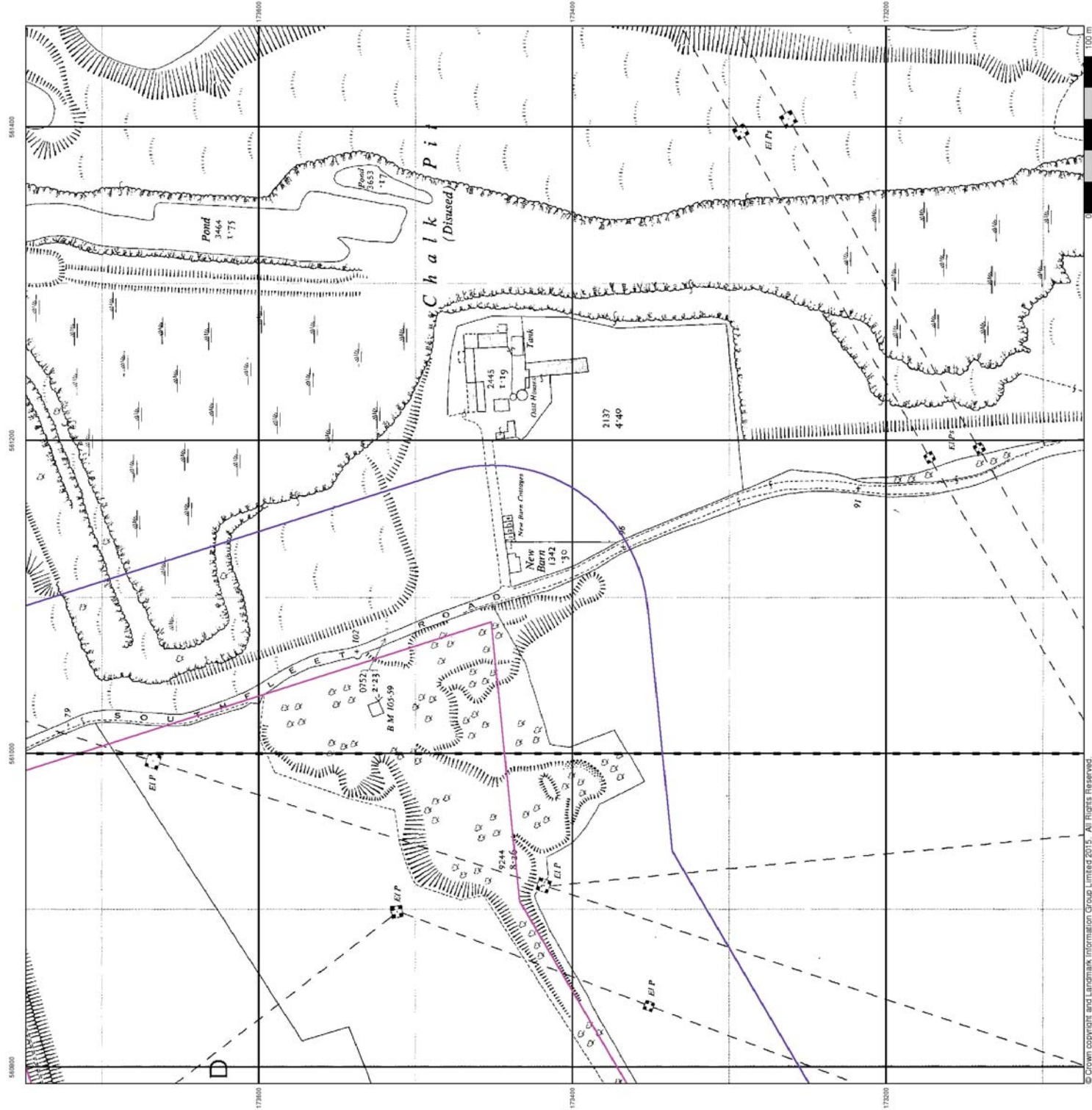


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



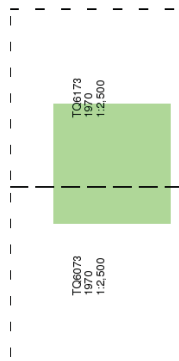
## Ordnance Survey Plan

Published 1970

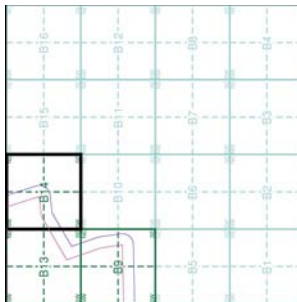
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. The 1:2,500 scale maps were reproduced from the original maps by 1884. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B14

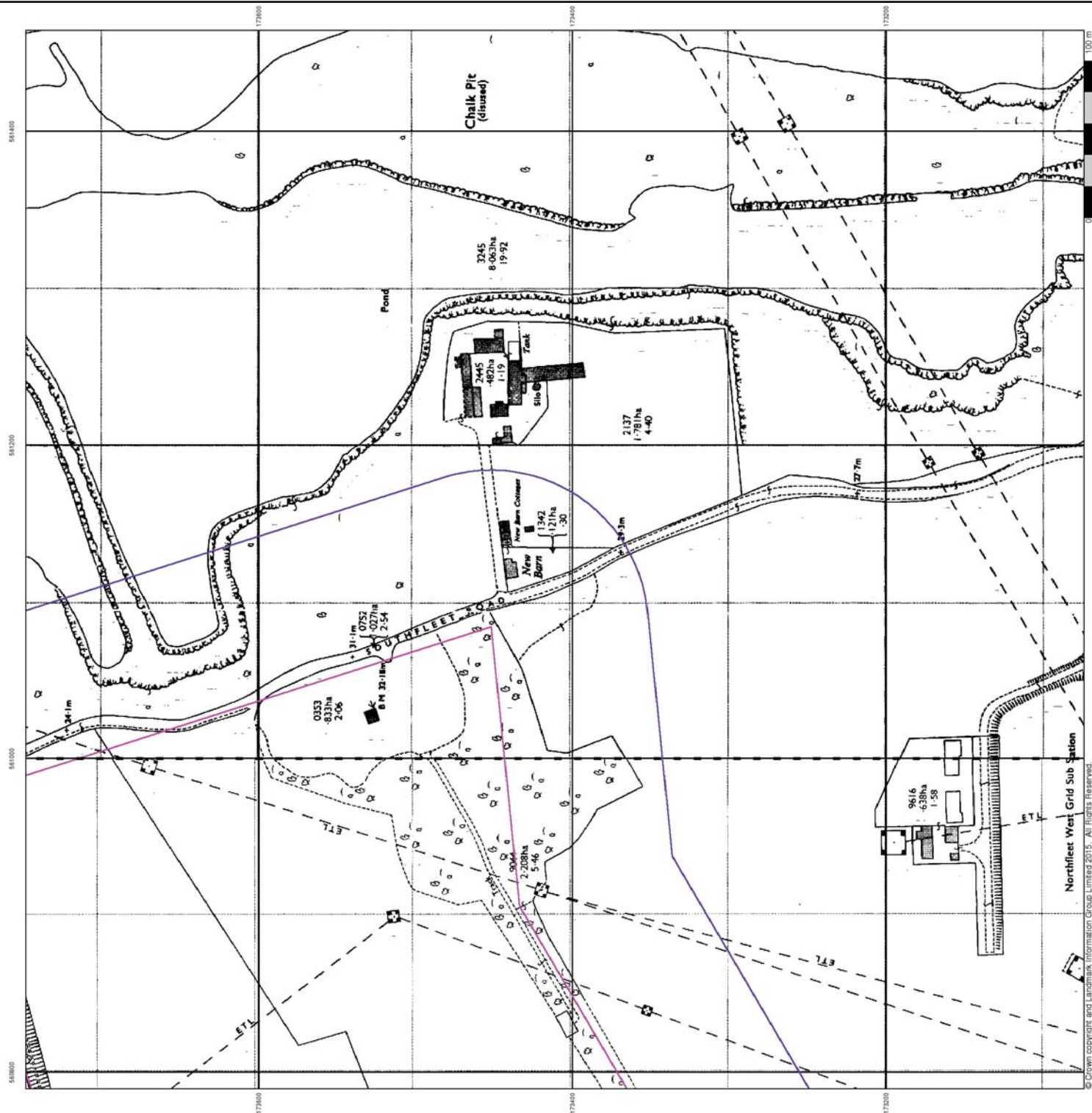


### Order Details

Order Number: 8930408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Site: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF

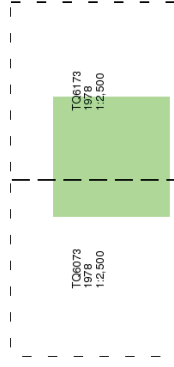




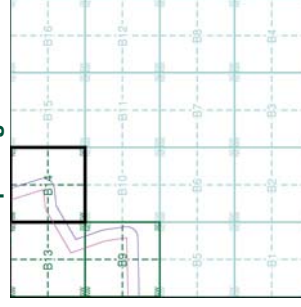
# Additional SIMs Published 1978 Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of mapping which were produced as publications before the introduction of the Ordnance Survey's 'Survey of Information on Microfilm' in 1984, and contain details of buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment B14

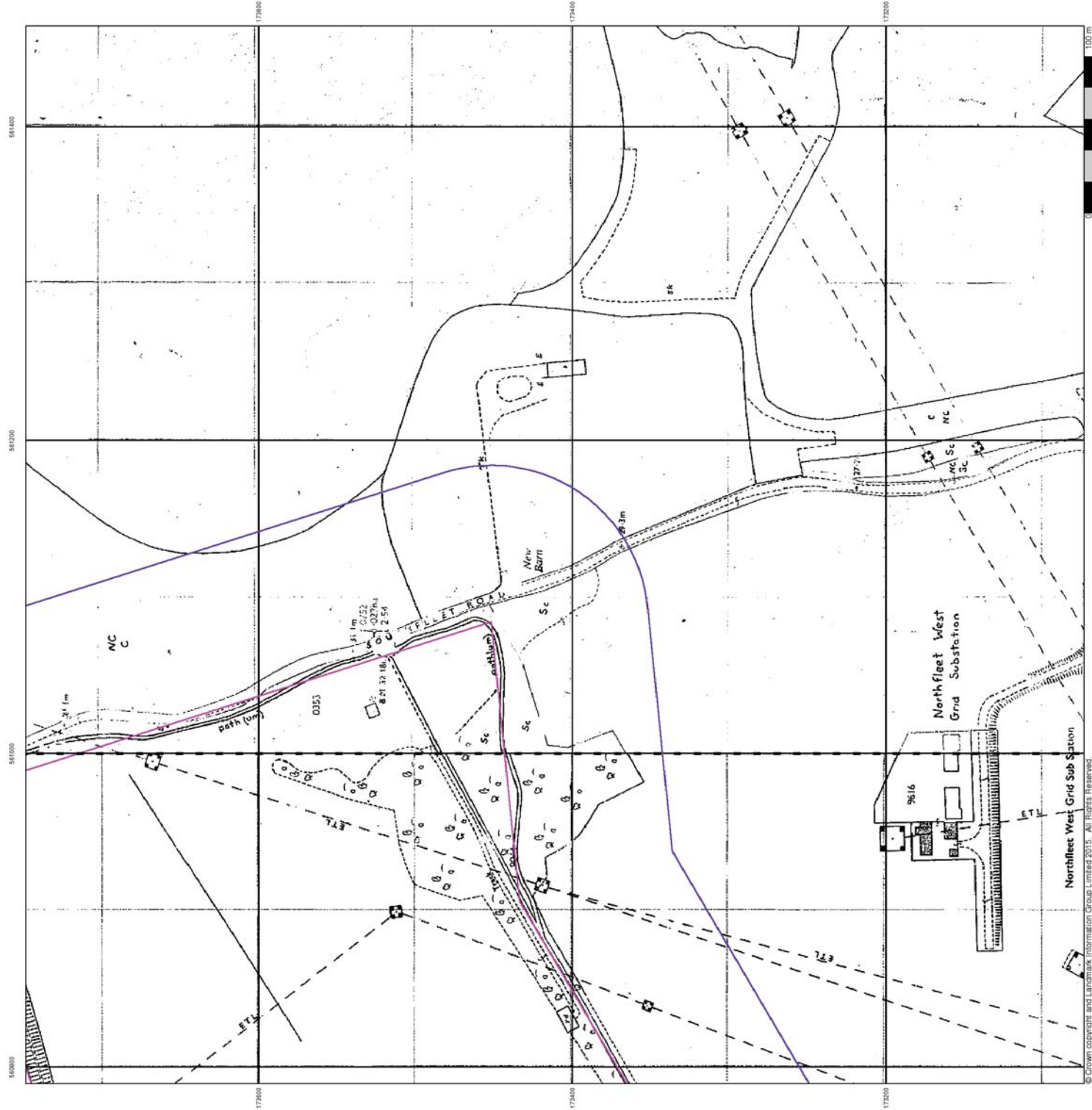


## Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

## Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





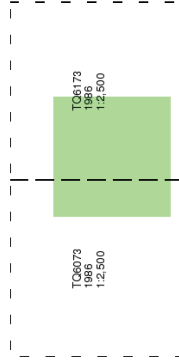
## Ordnance Survey Plan

Published 1986

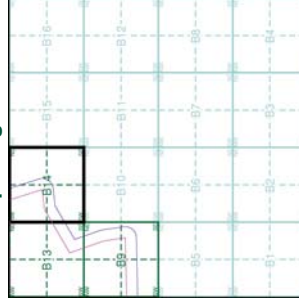
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at a scale adopted for England, Wales and Scotland in the 1840s. 1854 the 1:2,500 scale maps were produced and published by 1886 it covered the whole of what was considered to be the delineated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment B14

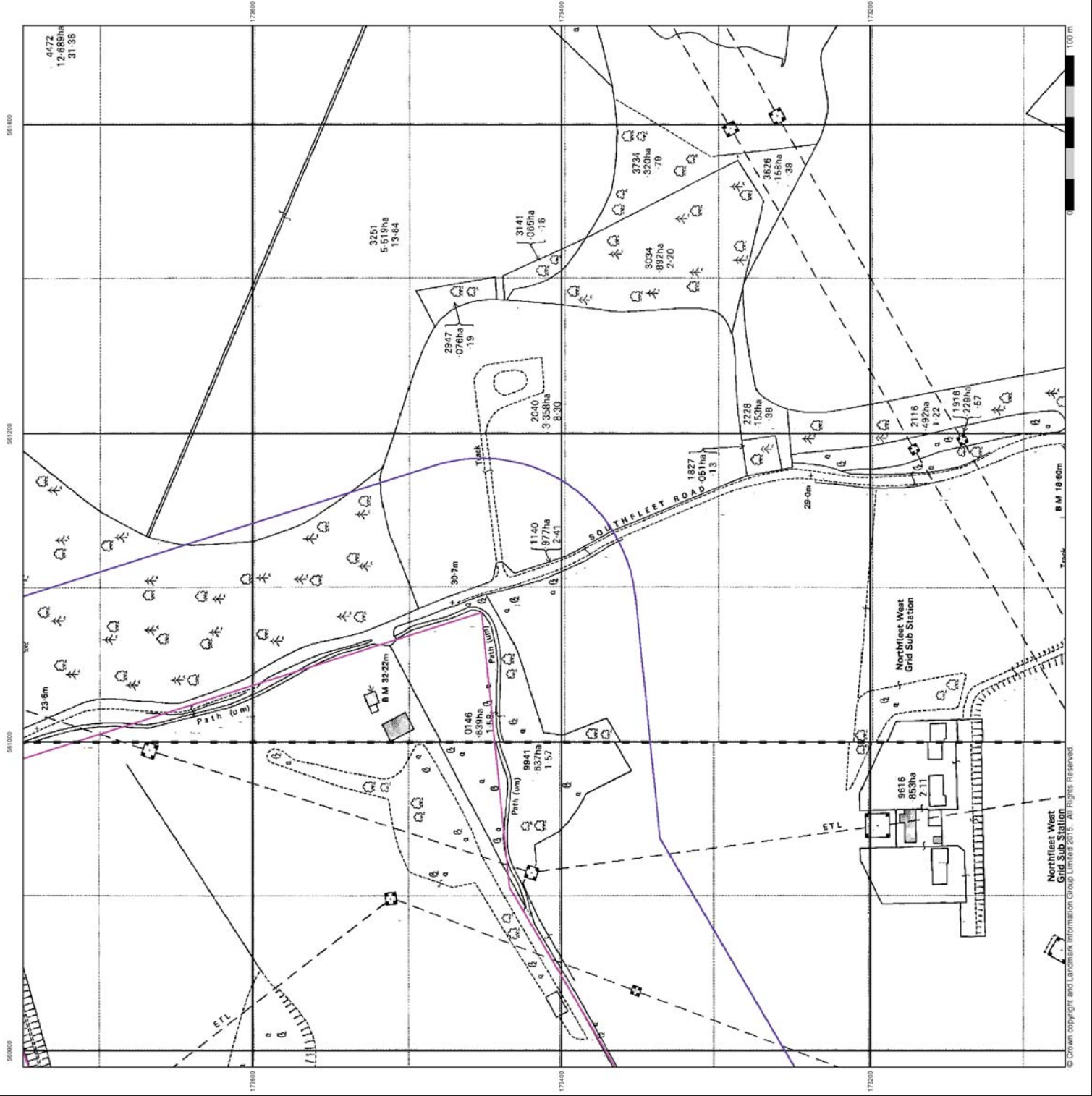


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



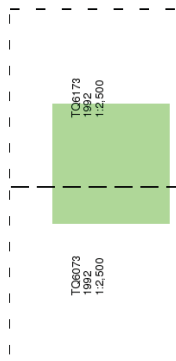
## Large-Scale National Grid Data

Published 1992

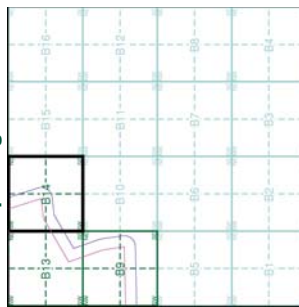
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps are of a large scale and are produced at a scale of 1:2,500. They provide detailed information on the topography of the area, but do not provide details of topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment B14



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





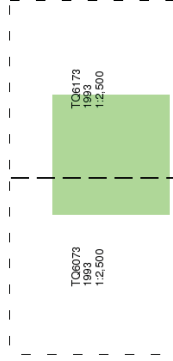
## Large-Scale National Grid Data

Published 1993

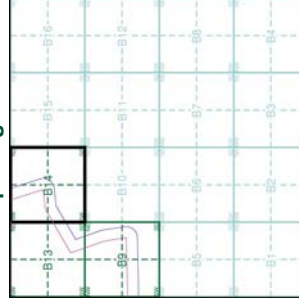
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps are not official Ordnance Survey maps and do not provide detailed information on roads and other features, but they do show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment B14

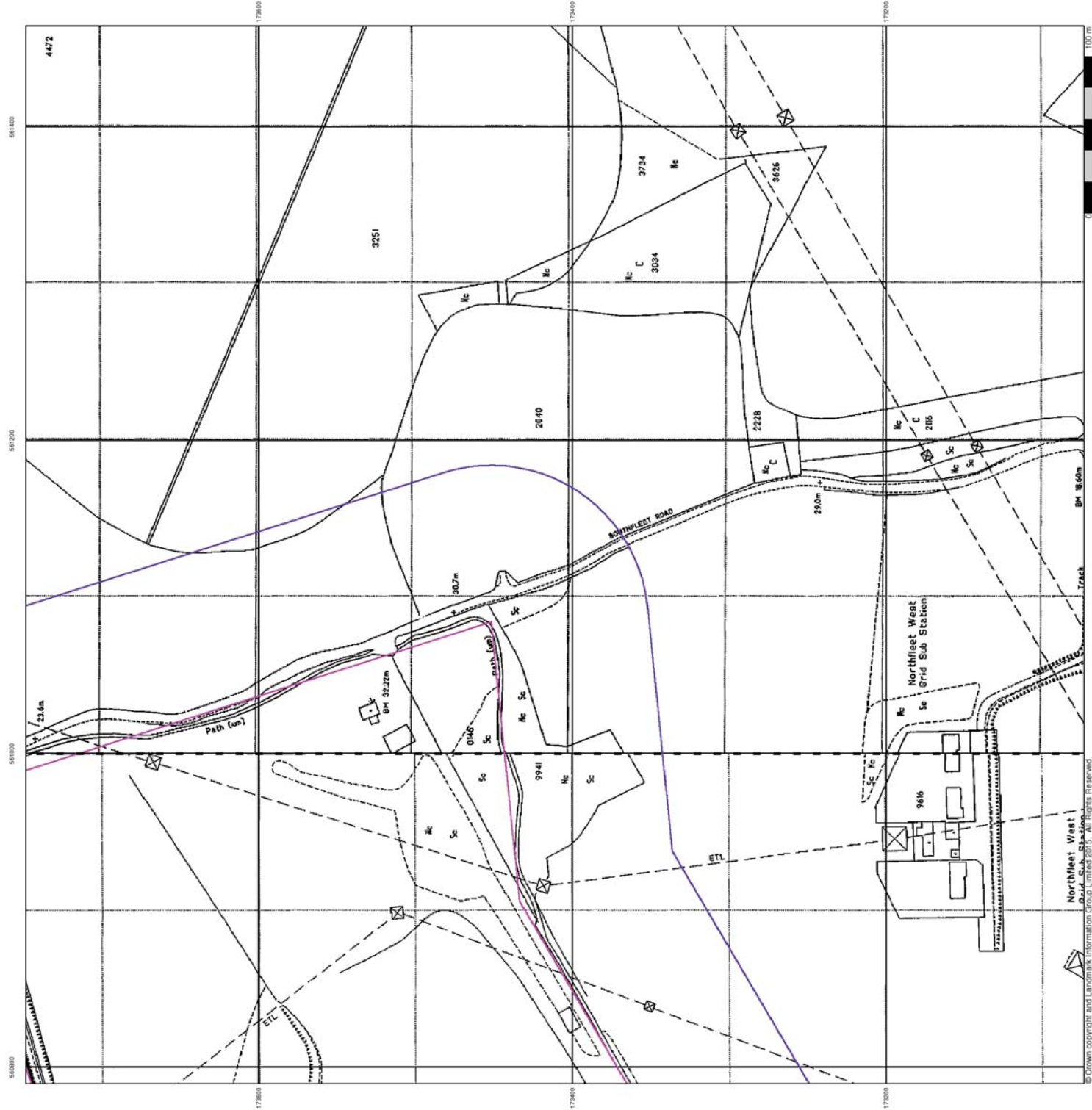


### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF





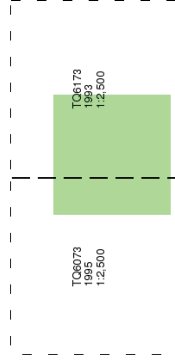
## Large-Scale National Grid Data

Published 1993 - 1995

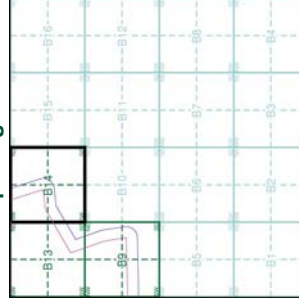
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey Information on Microfilm) in 1992, and continued to be produced until 1999. These maps are of a large scale and provide detailed information on the topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment B14



### Order Details

Order Number: 89304408\_1\_1  
Customer Ref: 250122/00  
National Grid Reference: 560950, 172840  
Slice: B  
Site Area (Ha): 272.38  
Search Buffer (m): 100

### Site Details

Barton Wilmore, The Observatory, Southfleet Road,  
SWANSCOMBE, Kent, DA10 0DF



## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

89304408\_1\_1

**Customer Reference:**

250122/00

**National Grid Reference:**

559070, 174590

**Slice:**

C

**Site Area (Ha):**

272.38

**Search Buffer (m):**

1000

#### Site Details:

Barton Wilmore, The Observatory  
Southfleet Road  
SWANSCOMBE  
Kent  
DA10 0DF

#### Client Details:

Mr P Measham  
Ove Arup & Partners International Ltd  
13 Fitzroy Street  
London  
W1T 4BQ

| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 15          |
| Hazardous Substances  | 20          |
| Geological            | 21          |
| Industrial Land Use   | 38          |
| Sensitive Land Use    | 43          |
| Data Currency         | 44          |
| Data Suppliers        | 49          |
| Useful Contacts       | 50          |

#### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

#### Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

#### Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

#### Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact [mining.review@arup.com](mailto:mining.review@arup.com)). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

#### Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

#### Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

#### Report Version v50.0



| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                             |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     | Yes       | Yes         | n/a                         |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                             |
| Discharge Consents                                            | pg 7        |         | 1         |             | 5                           |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                         |
| Enforcement and Prohibition Notices                           |             |         |           |             |                             |
| Integrated Pollution Controls                                 | pg 8        |         |           |             | 1                           |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                             |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                             |
| Local Authority Pollution Prevention and Controls             | pg 8        |         |           |             | 1                           |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                             |
| Nearest Surface Water Feature                                 | pg 8        | Yes     |           |             |                             |
| Pollution Incidents to Controlled Waters                      | pg 8        |         | 1         |             | 3                           |
| Prosecutions Relating to Authorised Processes                 | pg 9        |         | 1         |             |                             |
| Registered Radioactive Substances                             |             |         |           |             |                             |
| River Quality                                                 |             |         |           |             |                             |
| River Quality Biology Sampling Points                         |             |         |           |             |                             |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                             |
| Substantiated Pollution Incident Register                     | pg 9        |         |           | 1           |                             |
| Water Abstractions                                            | pg 9        | 7       | 1         | 1           |                             |
| Water Industry Act Referrals                                  |             |         |           |             |                             |
| Groundwater Vulnerability                                     | pg 11       | Yes     | n/a       | n/a         | n/a                         |
| Drift Deposits                                                |             |         | n/a       | n/a         | n/a                         |
| Bedrock Aquifer Designations                                  | pg 12       | Yes     | n/a       | n/a         | n/a                         |
| Superficial Aquifer Designations                              | pg 12       | Yes     | n/a       | n/a         | n/a                         |
| Source Protection Zones                                       | pg 13       | 5       |           |             |                             |
| Extreme Flooding from Rivers or Sea without Defences          | pg 13       |         | Yes       | n/a         | n/a                         |
| Flooding from Rivers or Sea without Defences                  | pg 13       |         | Yes       | n/a         | n/a                         |
| Areas Benefiting from Flood Defences                          | pg 13       |         | Yes       | n/a         | n/a                         |
| Flood Water Storage Areas                                     |             |         |           | n/a         | n/a                         |
| Flood Defences                                                |             |         |           | n/a         | n/a                         |
| Detailed River Network Lines                                  | pg 13       |         |           | Yes         | n/a                         |
| Detailed River Network Offline Drainage                       | pg 14       | Yes     |           |             | n/a                         |

| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                             |
| BGS Recorded Landfill Sites                                         | pg 15       |         |           |             | 1                           |
| Historical Landfill Sites                                           | pg 15       | 1       | 1         | 2           | 3                           |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                             |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                             |
| Licensed Waste Management Facilities (Locations)                    | pg 16       |         |           | 2           |                             |
| Local Authority Landfill Coverage                                   | pg 17       | 2       | n/a       | n/a         | n/a                         |
| Local Authority Recorded Landfill Sites                             |             |         |           |             |                             |
| Registered Landfill Sites                                           | pg 17       |         |           | 2           | 2                           |
| Registered Waste Transfer Sites                                     |             |         |           |             |                             |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                             |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                             |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                             |
| Explosive Sites                                                     |             |         |           |             |                             |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                             |
| Planning Hazardous Substance Consents                               | pg 20       |         |           |             | 1                           |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                             |
| <b>Geological</b>                                                   |             |         |           |             |                             |
| BGS 1:625,000 Solid Geology                                         | pg 21       | Yes     | n/a       | n/a         | n/a                         |
| BGS Recorded Mineral Sites                                          | pg 21       | 7       | 13        | 10          | 11                          |
| Brine Compensation Area                                             |             |         | n/a       | n/a         | n/a                         |
| Coal Mining Affected Areas                                          |             |         | n/a       | n/a         | n/a                         |
| Mining Instability                                                  | pg 28       | Yes     | n/a       | n/a         | n/a                         |
| Man-Made Mining Cavities                                            | pg 28       |         | 2         | 1           | 1                           |
| Natural Cavities                                                    | pg 28       |         |           | 1           | 2                           |
| Non Coal Mining Areas of Great Britain                              | pg 29       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Collapsible Ground Stability Hazards                  | pg 29       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Compressible Ground Stability Hazards                 | pg 29       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Ground Dissolution Stability Hazards                  | pg 30       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Landslide Ground Stability Hazards                    | pg 33       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Running Sand Ground Stability Hazards                 | pg 34       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 35       | Yes     | Yes       | n/a         | n/a                         |
| Radon Potential - Radon Affected Areas                              | pg 36       | Yes     | n/a       | n/a         | n/a                         |
| Radon Potential - Radon Protection Measures                         |             |         | n/a       | n/a         | n/a                         |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                                |
| Contemporary Trade Directory Entries | pg 38       |         | 7         | 15          | 27                             |
| Fuel Station Entries                 | pg 42       |         |           |             | 1                              |
| Gas Pipelines                        |             |         |           |             |                                |
| Underground Electrical Cables        |             |         |           |             |                                |
| <b>Sensitive Land Use</b>            |             |         |           |             |                                |
| Ancient Woodland                     | pg 43       |         |           | 3           |                                |
| Areas of Adopted Green Belt          |             |         |           |             |                                |
| Areas of Unadopted Green Belt        | pg 43       |         | 1         |             |                                |
| Areas of Outstanding Natural Beauty  |             |         |           |             |                                |
| Environmentally Sensitive Areas      |             |         |           |             |                                |
| Forest Parks                         |             |         |           |             |                                |
| Local Nature Reserves                |             |         |           |             |                                |
| Marine Nature Reserves               | pg 43       |         |           |             | 1                              |
| National Nature Reserves             | pg 43       |         | 1         |             |                                |
| National Parks                       |             |         |           |             |                                |
| Nitrate Sensitive Areas              |             |         |           |             |                                |
| Nitrate Vulnerable Zones             | pg 43       | 1       |           |             |                                |
| Ramsar Sites                         |             |         |           |             |                                |
| Sites of Special Scientific Interest | pg 43       |         | 1         | 1           |                                |
| Special Areas of Conservation        |             |         |           |             |                                |
| Special Protection Areas             |             |         |           |             |                                |
| World Heritage Sites                 |             |         |           |             |                                |



| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SE (E)                               | 0                            | 1       | 559850 174750 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8NW (NE)                              | 0                            | 1       | 559450 174850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW (E)                               | 0                            | 1       | 559700 174700 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8SW (E)                               | 0                            | 1       | 559750 174700 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SW)                                   | 0                            | 1       | 558600 173550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C3NE (SE)                              | 0                            | 1       | 559400 174350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 558850 173500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C3SW (S)                               | 0                            | 1       | 558950 173800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C7SE (E)                               | 0                            | 1       | 559350 174500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | C8SW (E)                               | 0                            | 1       | 559450 174450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 558700 173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 558750 173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3NE (SE)                              | 0                            | 1       | 559350 174250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C2SE (SW)                              | 0                            | 1       | 558700 173850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3SW (S)                               | 0                            | 1       | 558950 173950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C3SW (S)                               | 0                            | 1       | 559000 173850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SW)                                   | 0                            | 1       | 558550 173350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 558900 173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 559550 173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 559000 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 559050 173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SE)                                   | 0                            | 1       | 559700 173200 |

| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SE)                                   | 0                            | 1       | 560150<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SE)                                   | 0                            | 1       | 560050<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 558900<br>173500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (SE)                                   | 0                            | 1       | 559750<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (SE)                                   | 0                            | 1       | 560000<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW<br>(E)                            | 0                            | 1       | 559450<br>174500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8SW<br>(E)                            | 0                            | 1       | 559500<br>174500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SE)                                   | 0                            | 1       | 560250<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SE)                                   | 0                            | 1       | 560400<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | (S)                                    | 0                            | 1       | 558800<br>173550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 559050<br>173100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3NE<br>(SE)                           | 0                            | 1       | 559300<br>174100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C2SE<br>(SW)                           | 0                            | 1       | 558750<br>173950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C3SW<br>(S)                            | 0                            | 1       | 559000<br>173950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3SW<br>(S)                            | 0                            | 1       | 559100<br>174000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3SE<br>(S)                            | 0                            | 1       | 559200<br>174050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C4NW<br>(SE)                           | 0                            | 1       | 559450<br>174400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C3NE<br>(SE)                           | 0                            | 1       | 559350<br>174300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 0                            | 1       | 558600<br>173600 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C2SE<br>(SW)                           | 0                            | 1       | 558650<br>173750 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 558900<br>173700 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | C2SE<br>(S)                            | 0                            | 1       | 558750<br>173800 |

| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 0                            | 1       | 558550<br>173400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SW)                                   | 0                            | 1       | 558600<br>173500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | C3NE<br>(S)                            | 0                            | 1       | 559250<br>174100 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C3SW<br>(S)                            | 0                            | 1       | 559069<br>173900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3SW<br>(S)                            | 0                            | 1       | 559100<br>173900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 558600<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 559069<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 559500<br>173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 559600<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 559650<br>173150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 558550<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 558950<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 559000<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 559550<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SE)                                   | 0                            | 1       | 559700<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SE)                                   | 0                            | 1       | 559750<br>173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SE)                                   | 0                            | 1       | 559800<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SE)                                   | 0                            | 1       | 560250<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3SW<br>(S)                            | 0                            | 1       | 558850<br>174000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (S)                                    | 0                            | 1       | 558850<br>173600 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (S)                                    | 0                            | 1       | 558850<br>173650 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C3SW<br>(SW)                           | 0                            | 1       | 558800<br>174000 |



| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C3SW (S)                               | 0                            | 1       | 558900<br>174000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW (E)                               | 0                            | 1       | 559600<br>174650 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW (E)                               | 0                            | 1       | 559650<br>174650 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW (E)                               | 0                            | 1       | 559550<br>174600 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW (E)                               | 0                            | 1       | 559500<br>174593 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8SW (E)                               | 0                            | 1       | 559550<br>174593 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW (E)                               | 0                            | 1       | 559500<br>174550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C7SW (SW)                              | 0                            | 1       | 559069<br>174593 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8SE (E)                               | 0                            | 1       | 560000<br>174593 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8SW (E)                               | 7                            | 1       | 559600<br>174750 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 34                           | 1       | 558450<br>173400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C2SW (SW)                              | 43                           | 1       | 558250<br>173800 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NW (E)                               | 46                           | 1       | 559700<br>174850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C2SW (SW)                              | 53                           | 1       | 558300<br>173850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 70                           | 1       | 558400<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | C8NE (E)                               | 72                           | 1       | 559950<br>174850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SW)                                   | 72                           | 1       | 558400<br>173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NW (NE)                              | 87                           | 1       | 559750<br>174900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NE (E)                               | 88                           | 1       | 559900<br>174900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | C8NW (NE)                              | 96                           | 1       | 559650<br>174950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NW (NE)                              | 100                          | 1       | 559650<br>174900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8NE (E)                               | 106                          | 1       | 559950<br>174900 |

| Map ID | Details                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | C8NE (E)                               | 117                          | 1       | 560000<br>174850 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 120                          | 1       | 558350<br>173200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | (SW)                                   | 120                          | 1       | 558350<br>173250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NE (E)                               | 141                          | 1       | 560000<br>174900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NW (NE)                              | 163                          | 1       | 559600<br>174950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8NE (E)                               | 176                          | 1       | 560000<br>174950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 183                          | 1       | 558300<br>173400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NE (NE)                              | 187                          | 1       | 559800<br>175000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NW (NE)                              | 189                          | 1       | 559550<br>174950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C7NE (NE)                              | 193                          | 1       | 559250<br>175000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8NE (NE)                              | 197                          | 1       | 559950<br>175000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NW (NE)                              | 199                          | 1       | 559600<br>175000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8NE (NE)                              | 217                          | 1       | 560000<br>175000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NW (NE)                              | 219                          | 1       | 559450<br>174900 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 221                          | 1       | 558250<br>173300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | C8NW (NE)                              | 222                          | 1       | 559450<br>174950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | (SW)                                   | 227                          | 1       | 557950<br>173700 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C2NE (SW)                              | 228                          | 1       | 558650<br>174350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8NW (NE)                              | 231                          | 1       | 559550<br>175000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C8NW (NE)                              | 246                          | 1       | 559700<br>175050 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | C2NE (SW)                              | 248                          | 1       | 558500<br>174350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | C8NE (E)                               | 252                          | 1       | 560100<br>174950 |

# DARTFORD BOROUGH COUNCIL

Consultation  
C/O Ebbsfleet Development Corporation  
North Kent Police Station  
Thames Way  
Gravesend  
Kent  
DA11 8BD

Please ask for: Sonia Bunn  
Direct Line: (01322)  
Direct Fax: (01322) 343047  
E-mail:  
DX: 142726 Dartford 7  
Your Ref: EDC/16/0112  
Our Ref: DA/16/01955/EDCCON

Date: 9th December 2016

Dear Sir/Madam,

**Town and Country Planning Act 1990  
Town and Country Planning (Development Management Procedure) (England) Order 2015**

**Consultation on an application for the approval of condition 35 attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the Western part of Eastern Quarry within Ebbsfleet Development Corporation  
Eastern Quarry Watling Street Swanscombe Kent**

Your application relating to the above development was received on 6th December 2016, and was registered on 6th December 2016. The application, supporting documents and contact details will be scanned and made available on the internet. Such information is part of the statutory register and the Council has a duty to make it available. **For updates on this application you can refer to the website [www.dartford.gov.uk](http://www.dartford.gov.uk), (select 'planning application search')**

If by 27th December 2016 you have not been given notice by the Council of its decision, you appeal to the Secretary of State in accordance with Sections 78 & 79 of the Town and Country Planning Act 1990 by notice sent within six months from that date. Appeals must be made on the form obtainable from The Planning Inspectorate, Room 3/26 (Hawk Wing) Temple Quay House, 2 the Square, Temple Quay, Bristol BS1 6PN. The decision notice will be sent via email if you have supplied an email address on the application form.

Alternatively you may agree in writing with the Council that the period within which the decision shall be given may be extended. If it appears that this will not be possible to reach a decision within the above period, I shall write further to you requesting your agreement to this.

Additionally, I wish to remind you that the proposal may also require approval under the Building Regulations. You are advised to read the guidance available on our website ([www.dartford.gov.uk](http://www.dartford.gov.uk) – Services, Building Control) and if necessary submit an application before any works commence.

**If you would prefer to receive any future correspondence via email, please contact us with your email address. (Tel: 01322 343053 or [planning.admin@dartford.gov.uk](mailto:planning.admin@dartford.gov.uk))**

Yours faithfully

**On behalf of Dartford Borough Council**



# DARTFORD BOROUGH COUNCIL

Consultation  
C/O Ebbsfleet Development Corporation  
North Kent Police Station  
Thames Way  
Gravesend  
Kent  
DA11 8BD

Please ask for: Sonia Bunn  
Direct Line: (01322)  
Direct Fax: (01322) 343047  
E-mail:  
DX: 142726 Dartford 7  
Your Ref: EDC/16/0112  
Our Ref: DA/16/01955/EDCCON

Date: 9th December 2016

Dear Sir/Madam,

**Town and Country Planning Act 1990  
Town and Country Planning (Development Management Procedure) (England) Order 2015**

**Consultation on an application for the approval of condition 35 attached to planning permission reference no. 12/01451/EQVAR relating to land quality and ground contamination desk study for the Western part of Eastern Quarry within Ebbsfleet Development Corporation  
Eastern Quarry Watling Street Swanscombe Kent**

Your application relating to the above development was received on 6th December 2016, and was registered on 6th December 2016. The application, supporting documents and contact details will be scanned and made available on the internet. Such information is part of the statutory register and the Council has a duty to make it available. **For updates on this application you can refer to the website [www.dartford.gov.uk](http://www.dartford.gov.uk), (select 'planning application search')**

If by 27th December 2016 you have not been given notice by the Council of its decision, you appeal to the Secretary of State in accordance with Sections 78 & 79 of the Town and Country Planning Act 1990 by notice sent within six months from that date. Appeals must be made on the form obtainable from The Planning Inspectorate, Room 3/26 (Hawk Wing) Temple Quay House, 2 the Square, Temple Quay, Bristol BS1 6PN. The decision notice will be sent via email if you have supplied an email address on the application form.

Alternatively you may agree in writing with the Council that the period within which the decision shall be given may be extended. If it appears that this will not be possible to reach a decision within the above period, I shall write further to you requesting your agreement to this.

Additionally, I wish to remind you that the proposal may also require approval under the Building Regulations. You are advised to read the guidance available on our website ([www.dartford.gov.uk](http://www.dartford.gov.uk) – Services, Building Control) and if necessary submit an application before any works commence.

**If you would prefer to receive any future correspondence via email, please contact us with your email address. (Tel: 01322 343053 or [planning.admin@dartford.gov.uk](mailto:planning.admin@dartford.gov.uk))**

Yours faithfully

**On behalf of Dartford Borough Council**